Phase II Environmental Site Assessment: Site Soils Investigation Report

Highway 1804 Reconstruction,
Williston, North Dakota

Prepared for

DOWL, LLC

and

North Dakota Department of Transportation

Project B1601155

Braun Intertec Corporation

BRAUN INTERTEC
The Science You Build On.

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March 07, 2016

Project B1601155

DOWL, LLC
Adam McGill
140 1st Street East
Dickinson, North Dakota 58601

Re: Site Soils Investigation
Road Reconstruction
Highway 1804,
Williston, North Dakota

Dear Mr. McGill:

On behalf of DOWL, LLC (DOWL), Braun Intertec Corporation (Braun Intertec) conducted Site Soils Investigation activities along a stretch of Highway 1804 near Williston (the Site) where roadway reconstruction is planned. Braun Intertec's work was completed in accordance with the authorized scope of services described in our proposal dated February 3, 2016.

The purpose of the investigation was to assist DOWL and the North Dakota Department of Transportation (NDDOT) in determining the condition and volume of impacted soils that may be encountered during construction activities and to present specific recommended actions regarding the handling and final disposition of impacted soils determined to be present.

This Site Soils Investigation was prepared on behalf of and for use by DOWL, LLC and the NDDOT. No other party has a right to rely on the contents of this Site Soils Investigation without the written authorization of Braun Intertec.

For a complete discussion of our assessment, please refer to the attached Site Soils Investigation report.

We appreciate the opportunity to provide our professional services to you for this project. If you have any questions or comments regarding this report or the project in general, please call Christian Forster or Paul Miller at 701.255.7180.

Sincerely,

BRAUN INTERTEC CORPORATION

Josh Kadrmas, PE
Project Engineer

Paul R Miller, MSc., PG
Senior Environmental Scientist

Attachment: Site Soils Investigation Report
AA/EOE

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A. Introduction

A.1. Authorization

Braun Intertec Corporation received authorization from Mr. Adam McGill of DOWL, LLC (DOWL) to conduct a Site Soils Investigation of the project area along a stretch of Highway 1804 beginning directly east of the Little Muddy River and extending east to 27th Avenue East in Williston, North Dakota (Site) in accordance with the scope of services described in our proposal dated February 3, 2016. The Site Soils Investigation was prepared in association with roadway reconstruction.

This Site Soils Investigation was prepared on behalf of and for use by DOWL and the North Dakota Department of Transportation (NDDOT) in accordance with the contract between DOWL and Braun Intertec. Other than DOWL and the NDDOT, no other party has a right to rely on the contents of this Site Soils Investigation without the written authorization of Braun Intertec.

A.2. Project Objective

The purpose of the investigation was to assist DOWL and the NDDOT in determining the condition and volume of impacted soils that may be encountered during construction activities and to present specific recommended actions regarding the handling and final disposition of impacted soils determined to be present.

B. Site Background

B.1. Site Location and Description

The Site is located along a stretch of Highway 1804 beginning directly east of the Little Muddy River and extending east to 27th Avenue East in Williston, North Dakota. The Site is located in an industrial portion of Williston with several oil and gas, railroad, and other industrial services in the area. Soil boring locations for the investigation were placed in the right of way to the north and south of Highway 1804. Specific boring locations and depths were chosen by DOWL and marked in the field prior to our arrival.

C. Scope of Services

The overall objective of the Scope of Services included field screening of Site soils from sampling locations chosen by DOWL at the onset of the project, collection of twenty total soil samples from a total of ten soil borings, and preparation of a report summarizing the results of the investigation. Laboratory analyses of the soil samples were conducted under a rushed, 24-hour turnaround, processing schedule. Specific work elements included the following:

- Ten (10) push probe soil borings were advanced to an average depth of 10 feet below ground surface (bgs) in the right of way on the northern and southern sides of Highway 1804.
- Soil samples collected from the borings were screened in the field for indications of volatile organic compounds (VOCs) using a PhotoIonization Detector (PID). Soil samples were also visually screened for field indications of contaminant impacts.
- A total of two soil samples were collected from each soil boring and submitted for laboratory analysis. Samples were collected from the middle and base of each boring. Soil samples were analyzed for VOCs, Total Volatile Petroleum Hydrocarbons as Gasoline Range Organics (TVPH/GRO), Total Extractable Petroleum Hydrocarbons as Diesel Range Organics (TEPH/DRO) and Total Extractable Petroleum Hydrocarbons as Motor Oil Range Organic Compounds (TEPH/MO) in accordance with standard requirements of the North Dakota Department of Health (NDDoH) for petroleum releases.
- This Soils Investigation Report was generated to summarize the findings of the investigation.

C.1. Deviations from Scope of Services

Work was performed in general conformance with the scope of services presented in Braun Intertec's February 3, 2016 proposal. No deviations from the scope of services or standard operating procedure were made with the exception of the following:

- Investigation location SB-5 was proposed to be advanced to a depth of 18 feet bgs. Probe refusal was met at a depth of 10 feet bgs. Due to the numerous utilities such as sewer and water and overhead power lines in the immediate area, the boring advancement was terminated at 10 feet bgs to avoid potential damage to a buried utility.

D. Investigation Methods and Procedures

The fieldwork for the investigation was conducted on February 16, 2016. Prior to beginning the field investigation, public utilities were cleared through North Dakota One Call. A Braun Intertec Environmental Technician was on Site to help identify proposed soil boring locations during utility clearance activities on Thursday, February 11, 2016.

Ten push probe soil borings (designated SB-1 through SB-10) were advanced at the Site. The soil borings were advanced as follows:

- Soil borings SB-1, SB-4, SB-7, SB-8, and SB-9 were advanced to a depth of 8 feet bgs.
- Soil borings SB-3, SB-5, SB-6, and SB-10 were advanced to a depth of 10 feet bgs
- Soil boring SB-2 was advanced to a depth of 12 feet bgs.

The soil boring locations are shown on Figure 2. Standard operating procedures (SOPs) used during the investigation are provided in Appendix A.

D.1. Investigation Results

D.1.a. Soil borings

Braun Intertec subcontracted Range Environmental Drilling of Hibbing, Minnesota, to advance the ten soil borings at the Site, designated as SB-1 through SB-10. The borings were advanced to depths ranging from 8 to 12 feet below ground surface (bgs) as chosen by DOWL based on planned construction excavation depths.

Soil borings SB-1 through SB-10 were completed with a hydraulically-driven push-probe sampling rig. To collect the soil samples from the borings, a disposable thin-walled PVC liner was placed inside of a 4-foot long sampling tool. The borehole was then advanced using a dual-tube system, which allows for the inner sampling tool to be pushed through a larger outer-diameter rod a total penetration depth of up to 5 feet. After advancing the tooling, the sampler was removed from the borehole, but the outer rod remained, keeping the borehole open, and the soil sample was retrieved from the PVC liner for field screening and classification. The process was then repeated to the termination depths of the borings.

Prior to arrival onsite, the drill rig and sampling equipment were cleaned with a high pressure, hot water sprayer. Between sampling locations, non-dedicated sampling equipment was cleaned with a soap and water scrub followed by a clean water rinse. Upon completion, soil borings were sealed and abandoned in accordance with NDDoH guidelines.

D.1.b. Soil Analyses

Based on the results of field screening, selected soil samples for chemical analyses were collected from the soil borings. Two samples were collected from each of the push-probe soil borings. Samples were collected from the middle interval and the base of each boring. The samples were submitted to ALS Environmental Laboratories and analyzed for the following parameters:

- VOCs using United States Environmental Protection Agency (EPA)SW-846 Method 8260C;

- Total Volatile Petroleum Hydrocarbons as Gasoline Range Organics (TVPH/GRO), also using SW-846 Method 8260C, and
- Total Extractable Petroleum Hydrocarbons as Diesel Range Organics (TEPH/DRO) and as Motor Oil (TEPH/MO) using SW-846 Methods 8000C and 8015D;
- Measurement of moisture content was completed during laboratory analyses as a routine method to evaluate dry sample contaminant concentration. Where contamination is found to be present, high moisture contents suggests contamination introduced by way of groundwater flow rather than direct release to Site soils. Groundwater samples were not specifically collected during this investigation.

E. Investigation Results

E.1. Geologic Conditions

Soil boring logs with descriptions of the various soil strata encountered during the soil boring operations and water-level information are included as Appendix C. The depths shown as changes between the soil types are approximate. The actual changes may be transitional, and the transition depths are likely to be horizontally variable.

In general, Site soils were predominantly sandy lean clays (Unified Soil Classification System (USCS) designation CL) with localized sandy silt (ML) intervals. Silty sands (SM) were found at borings SB-2 and borings SB-5 through SB-8, which were all located on the south side of Highway 1804. Cobbles and gravels were recognized at various depth intervals in most of the borings. The environmental technician noted intervals of material with the potential to be fill material in borings SB-4-SB-7 generally located within the one to four foot interval below ground surface. Small amounts of concrete debris were observed within boring SB-9 at the 1.5 foot interval only.

As would be expected given the proximity of the Site to the Little Muddy River, the interlayered nature of soil types recorded at the Site is typical of fluvial (stream-deposited) sediments, which in turn suggests that the individual soil bodies are likely to be lenticular in shape and of limited areal extent. An apparent shallow water table was encountered at several of the soil boring locations, and was indicated to be present at other soil boring locations on the basis of saturated soils. As such, shallow water table conditions do appear to be present at the Site.

E.2. Field Screening

The borings were field screen using a photoionization detector (PID) Mini Rae 3000, using a head space method. Soil samples were placed in plastic bags, left to volatilize for approximately 15 minutes. The highest observed reading was recorded and included as a part of the corresponding boring log.

With one exception, PID field screening results did not indicate of the presence of volatile organic vapors in the soil samples recovered from the soil boring locations. A PID reading of 8.5 parts per million (ppm) and a strong petroleum like odor was recorded in the soil sample collected from the 6-8 foot bgs interval of soil boring SB-7. At the time of the investigation, the temperature was an average of 28 degrees Fahrenheit throughout the day. A summary of PID soil screen results is included as Table 1.

Soil samples were also visually inspected for indications of contamination. No indications of visual contamination were recorded in association with this field investigation.

E.3. Soil Analytical Testing Results

Based on the commercial/industrial setting of the Site and the type of land uses known to surround the Site (including a former refinery and the former Williston Municipal Landfill), soil samples were analyzed for TPH/DRO, TPH/GRO, TPH/MO and VOCs. A summary of the analytical results for the soil samples is provided in Table 2. The results of the laboratory analysis indicated that:

- TEPH/DRO concentrations ranged from below detection limits to a high of 75 milligrams per kilogram (mg/kg) at soil boring SB-7 at 8 feet bgs.
- TEPH/MO concentrations ranged from below detection limits to a high of 210 mg/kg at soil boring SB-7 at 4 feet bgs.
- TVPH/GRO concentrations were below detection limits at all but one of the boring locations. A concentration of 2,900 micrograms per kilogram (ug/kg) was reported for the soil sample collected at soil boring SB-7 at a depth of 8 feet bgs.
- Low level TEPH/DRO and TEPH/MO concentrations were reported at many of the boring locations, with the highest concentrations present in the shallower of the two samples taken from their respective boring.
- Acetone was reported for most of the soil samples, ranging from below detection limits to a high of 25 ug/kg (SB-7 at 8 feet). The presence of low levels of acetone by itself in the soil samples may be indicative of field contamination of the samples from the acetate sleeves used to collect the soil boring samples rather than being representative of an actual contaminant of concern.

- With the exception of acetone, VOCs were not found to be present above method detection limits at any Site location other than SB-7 at 8 feet bgs. Elevated concentrations of a number of compounds typically associated with gasoline were reported for the soil samples collected at 8 feet bgs at that location.
- The moisture content of SB-7 at 8 feet bgs was measured in the laboratory at 25.2 suggesting saturated soil conditions, indicative of a shallow water table. Additionally, soil at SB-7 at that depth interval was observed to be relatively permeable silty sand underlying a layer of clays extending to the ground surface. As such, it suggests that the contamination observed in the soil sample collected at 8 feet bgs at soil boring SB-7 may have migrated via groundwater rather than through soil. In this case, the NDDoH groundwater standard may be more applicable than the NDDoH soil standards. In either case, NDDoH standards are exceeded for both media at SB-7.
- A trip blank water sample was collected and analyzed for VOCs. VOC compounds were not detected in the Trip Blank sample, indicating that contamination of the samples did not occur during either sample container or return sample shipment.

Complete laboratory reports, supporting documentation, and chain of custody forms are attached as Appendix C.

E.4. Quality Assurance/Quality Control

Samples were placed in clean, laboratory supplied containers, preserved, labeled, and transported to the ALS Environmental laboratory under refrigerated conditions using chain-of-custody procedures.

Analyses were performed using EPA or other recognized standard procedures. Data were reviewed prior to release, quality-control guidelines were generally met, and the data is considered usable. Specific information on standard operating procedures, detection limits, and quality-control measures is available upon request.

F. Conclusions

Of the soil boring samples collected for laboratory analyses of contaminant release indicators, compounds exceeding NDDoH limits for petroleum releases were only reported to be present at soil boring location SB-7. As previously described, moisture levels at the base of SB-7 indicate groundwater conditions. In this case, the NDDoH groundwater standard may be more applicable than the NDDoH soil standards. In either case, NDDoH standards NDDoH action levels for TPH/MO, TPH/GRO and Benzene are exceeded for both media at SB-7.

Based on information provided to Braun Intertec during discussion of the Site analytical results with DOWL and NDDOT representatives, the TPH/GRO contamination at SB-7 is consistent with a known gasoline contaminant plume extending towards Highway 1804 from the former Flying J Refinery Site to the south. Based on indications of a shallow water table across the Site, contamination in the vicinity of soil boring SB-7 may be as a result of groundwater migration. In the absence of indications of gasoline-related contamination at adjacent soil boring locations SB-3 and SB-8, the extent of contamination has been inferred to be limited to the area extending from SB-7 to the adjacent borings. Low concentrations of TEPH/DRO and TEPH/MO reported in soil samples collected at other soil boring locations are not above current NDDoH action levels.

G. Recommendations

Based on the need to excavate soils to depths below the apparent shallow water table and on the observed presence of contaminant impacts to soil in the vicinity of soil boring SB-7, an excavation contingency plan should be developed to determine the volume of contaminated soils likely to be encountered during utility excavation, and to characterize the soils sufficiently to establish specific work scope elements necessary for contaminated soils handling and disposal.

Considering that the excavation will extend to the Little Muddy River and that utility bedding and associated disturbed soils can form a preferred pathway for contaminant transport beyond the area currently impacted and toward environmentally sensitive areas, the excavation contingency plan should include specific work scope elements and design criteria to contain contaminated groundwater during excavation activities and following trench closure. In order to complete work scope development to achieve these goals, the following additional soil and groundwater characterization steps are required:

- Additional soils borings should be completed in the area surrounding SB-7 and extending to adjacent areas where contamination has been determined to be absent. The refined investigation area is as indicated on Figure 3 of this report.
- Soil samples should be collected and analyzed in the same manner described in this report. Additionally, following completion of the borings, one-inch diameter piezometers should be installed in the borings and screened across silty sand and/or sand layers to allow measurement of the groundwater potentiometric surface at each location.
- Once installed, the groundwater piezometers should be sampled to determine the extent of the groundwater plume surrounding the SB-7 area.
- During drilling activities, a larger diameter well sufficient to accommodate at least a four-inch diameter submersible pump should be installed. Once installed, a constant head pumping test should be conducted using the surrounding piezometer network to monitor groundwater levels.

- The pumping test should be of sufficient duration to establish the pumping rate necessary to dewater the excavation as it is advanced and finalized. During testing, the discharge water should be sampled to develop final disposal options. As discussed, potential options include discharge to municipal sewer and off-site disposal.
- During excavation activities, impermeable plugs should be installed to help contain and restrict the movement of contaminated groundwater encountered in the open SB-7 excavation area, to reduce potential comingling with uncontaminated groundwater, and to help eliminate potential establishment of a preferred contaminant transport pathway toward the Little Muddy River by way of utility bedding. Soil and groundwater characterization will be used to determine plug spacing. We have tentatively assumed that a total of four plugs would be sufficient to contain contaminated groundwater and to divide the excavation area into manageable dewatering cell sizes. Assuming that the excavation length impacted by contaminated ground water conditions totals 300 feet, that plugs are installed on each end of the excavation, and that two intermediate plugs are installed, plug spacing would be 100 feet.
- Abandonment of existing pipelines should also be completed using impermeable plugs to prevent spread of contamination through pipeline materials left in place following closure. The plugs would provide a barrier to flow through utility bedding materials, however, groundwater flow through materials in undisturbed materials beneath the plugs would not be affected.

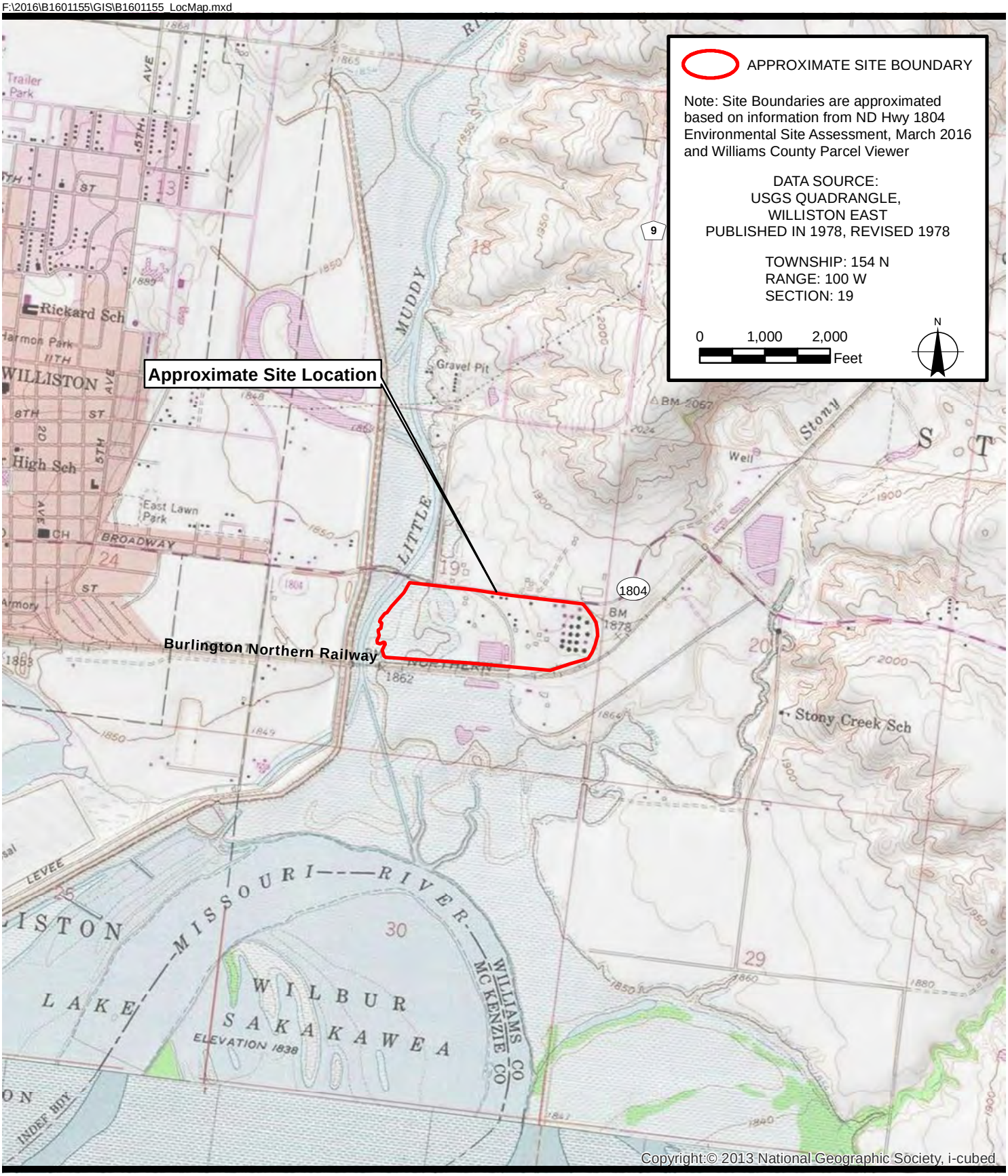
H. Assessment Limitations

The analyses and conclusions submitted in this report are based on our field observations and the results of laboratory chemical analyses of soil samples collected from the soil borings completed for this project. Soil boring locations and depths were selected by the client prior to our arrival.

In performing its services, Braun Intertec used that degree of care and skill ordinarily exercised under similar circumstances by reputable members of its profession currently practicing in the same locality. No warranty, express or implied, is made.

Figures

F:\2016\B1601155\GIS\B1601155_LocMap.mxd



Sheet: 1 of 1

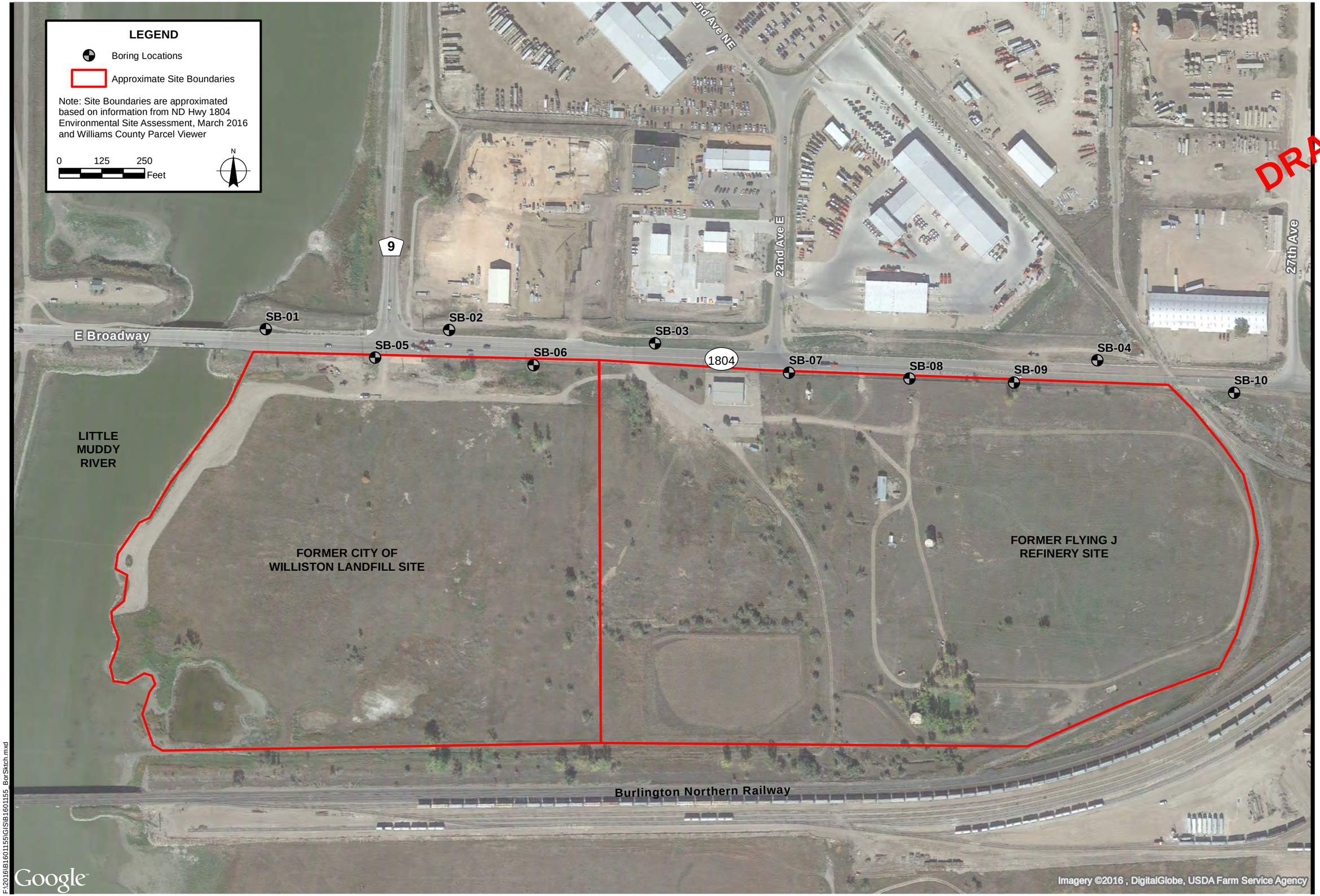
Fig. 1

Project No:	B1601155
Drawing No.	B1601155_LocMap
Scale:	1 in = 2,000 ft
Drawn By:	CMF
Date Drawn:	02/23/2016
Checked By:	PM
Last Modified:	3/23/16

SITE LOCATION MAP

DOWL, LLC
SOILS INVESTIGATION
HIGHWAY 1804
WILLISTON, NORTH DAKOTA

BRAUN INTERTEC
11001 Hampshire Avenue So.
Minneapolis, MN 55438
PH. (952) 995-2000
FAX (952) 995-2020



DRAFT

BRAUN INTERTEC
1341 South 20th Street
Bismarck, ND 58504
PH: (701) 255-7180
FAX: (701) 255-7208

BORING LOCATION SKETCH

DOWL, LLC
SOILS INVESTIGATION
HIGHWAY 1804
WILLISTON, NORTH DAKOTA

Project No:	B1601155
Drawing No.	B1601155_BorSktch
Scale:	1 in = 250 ft
Drawn By:	CMF
Date Drawn:	02/23/2016
Checked By:	PM
Last Modified:	3/23/16
Sheet:	1 of 1
Fig.	2

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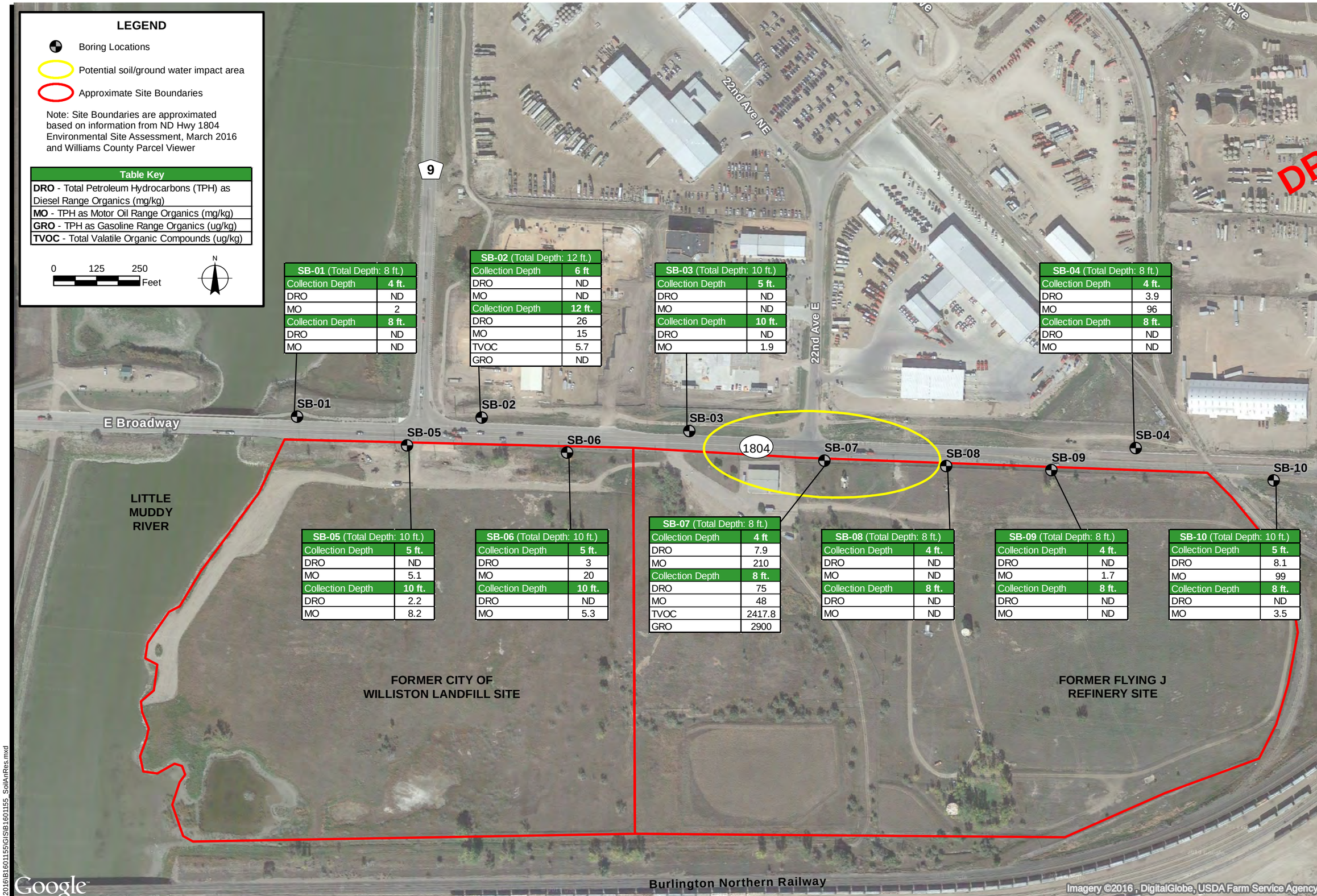

Table Key
DRO - Total Petroleum Hydrocarbons (TPH) as Diesel Range Organics (mg/kg)
MO - TPH as Motor Oil Range Organics (mg/kg)
GRO - TPH as Gasoline Range Organics (ug/kg)
TVOC - Total Valatile Organic Compounds (ug/kg)

SB-01 (Total Depth: 8 ft.)	
Collection Depth	**4 ft.**
DRO	ND
MO	2
Collection Depth	**8 ft.**
DRO	ND
MO	ND

SB-02 (Total Depth: 12 ft.)	
Collection Depth	**6 ft**
DRO	ND
MO	ND
Collection Depth	**12 ft.**
DRO	26
MO	15
TVOC	5.7
GRO	ND

SB-03 (Total Depth: 10 ft.)	
Collection Depth	**5 ft.**
DRO	ND
MO	ND
Collection Depth	**10 ft.**
DRO	ND
MO	1.9

SB-04 (Total Depth: 8 ft.)	
Collection Depth	**4 ft.**
DRO	3.9
MO	96
Collection Depth	**8 ft.**
DRO	ND
MO	ND

SB-05 (Total Depth: 10 ft.)	
Collection Depth	**5 ft.**
DRO	ND
MO	5.1
Collection Depth	**10 ft.**
DRO	2.2
MO	8.2

SB-06 (Total Depth: 10 ft.)	
Collection Depth	**5 ft.**
DRO	3
MO	20
Collection Depth	**10 ft.**
DRO	ND
MO	5.3

SB-07 (Total Depth: 8 ft.)	
Collection Depth	**4 ft**
DRO	7.9
MO	210
Collection Depth	**8 ft.**
DRO	75
MO	48
TVOC	2417.8
GRO	2900

SB-08 (Total Depth: 8 ft.)	
Collection Depth	**4 ft.**
DRO	ND
MO	ND
Collection Depth	**8 ft.**
DRO	ND
MO	ND

SB-09 (Total Depth: 8 ft.)	
Collection Depth	**4 ft.**
DRO	ND
MO	1.7
Collection Depth	**8 ft.**
DRO	ND
MO	ND

SB-10 (Total Depth: 10 ft.)	
Collection Depth	**5 ft.**
DRO	8.1
MO	99
Collection Depth	**8 ft.**
DRO	ND
MO	3.5

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DRAFT

FIGURE 3: SOILS INVESTIGATION RESULTS SUMMARY

NORTH DAKOTA HIGHWAY 1804 IMPROVEMENT PROJECT
WILLISTON, NORTH DAKOTA

Project No:	B1601155
Drawing No.	B1601155_SoilAnRes
Scale:	1 in = 250 ft
Drawn By:	CMF
Date Drawn:	02/23/2016
Checked By:	PM
Last Modified:	3/23/16
Sheet:	1 of 1
Fig.	3

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Tables

Table 1
Summary of Soil Screening Results
Highway 1804 Reconstruction

Williston, North Dakota
Project: B1601155

Depth (ft.)	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10
0-2	0.1	-	0.3	-	**0.1**	-	0.2	**-**	**-**	0.1
2-4	0.1	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.5
4-6	0.2	0.2	0.4	-	-	-	0.3	-	**-**	0.3
6-8	0.1	0.3	-	0.2	0.3	0.3	**8.5**	0.2	0.3	0.3
8-10	-	0.3	0.1	-	0.3	0.2	-	-	-	0.4
10-12	-	0.7	-	-	-	-	-	-	-	-

Note:

Concentrations in parts per million (ppm)

- = No sample recovery

BRAUN INTERTEC

Table 3
Soil Analytical Results
North Dakota Highway 1804 Improvement Project
Williston, North Dakota
Project B1601155

Table 2
Soil Analytical Results
North Dakota Highway 1804 Improvement Project
Williston, North Dakota
Project B1601155

Compound/Parameter	CAS No.	Sample Identifier and Date Collected																			
		SB-01 (4')	**SB-01 (8')**	**SB-02 (6')**	**SB-02 (12')**	**SB-03 (5')**	**SB-03 (10')**	**SB-04 (4')**	**SB-04 (8')**	**SB-05 (5')**	**SB-05 (10')**	**SB-06 (5')**	**SB-06 (10')**	**SB-07 (4')**	**SB-07 (8')**	**SB-08 (4')**	**SB-08 (8')**	**SB-09 (4')**	**SB-09 (8')**	**SB-10 (5')**	**SB-10 (10')**
		2/16/2016	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**	**2/16/2016**
Volatile Organic Compounds (VOCs) (ug/kg)																					
Acetone	67-64-1	<20	<23	**8 J**	<35	**5 J**	<4.4	**17 J**	**6.2 J**	**8 J**	**10 J**	<11	**18 J**	<13	**25**	<10	<16	**8.8 J**	**8 J**	<21	**28 J**
Benzene	71-43-2	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**160 J**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
2-Butanone (MEK)	78-93-3	<20	<23	<12	<18	<15	<18	<18	<18	<17	<17	<11	<11	<13	**4.4 J**	<10	<16	<10	<18	<21	<16
n-Butylbenzene	104-51-8	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**9.4**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
sec-Butylbenzene	135-98-8	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**7.5**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
Chloromethane	74-87-3	<4.9	<5.7	<2.4	**5.7 J**	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	<3.44	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
Ethylbenzene	100-41-4	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**310**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
Isopropylbenzene (Cumene)	98-82-8	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**32**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
p-Isopropyltoluene	99-87-6	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**6.6**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
Naphthalene	91-20-3	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**77**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
n-Propylbenzene	103-65-1	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**61**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
1,2,4-Trimethylbenzene	95-63-6	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**970**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
1,3,5-Trimethylbenzene	108-67-8	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**20**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
Xylene (Total)	1330-20-7	<4.9	<5.7	<2.4	<8.8	<5.5	<4.4	<4.5	<4.4	<4.3	<4.3	<2.8	<2.8	<3.3	**734.9**	<2.8	<3.9	<2.5	<4.5	<5.1	<4.1
All other reported VOCs	---	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total VOCs (TVOC)	---	<MDL	<MDL	**8 J**	**5.7 J**	**5 J**	<MDL	**17 J**	**6.2 J**	**8 J**	**10 J**	<MDL	**18 J**	<MDL	**2253.40**	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Gasoline Range Organics (GRO)	---	<490	<570	<290	<880	<380	<440	<450	<440	<430	<430	<280	<280	<330	**2900**	<280	<390	<250	<450	<510	<410
Other Parameters (mg/kg)																					
Diesel Range Organics (DRO)	---	<6.3	<6.4	<5.1	**26**	<5.9	<5.8	**3.9 J**	<5.5	<5.7	**2.2 J**	**3 J**	<5.7	**7.9 J**	**75**	<5.1	<6.2	<5.1	<5.6	**8.1**	<5.5
Motor Oil Range Organics (MO)	---	**2 J**	<6.4	<5.1	**15**	<5.9	**1.9 J**	**96**	<5.5	**5.1 J**	**8.2**	**20**	**5.3 J**	**210**	**48**	<5.1	<6.2	**1.7 J**	<5.6	**99**	**3.5 J**
%Moisture (Bulk Sample)	---	21.5	22.5	1.8	4.5	16.3	15.2	7.0	11.3	15.5	16.9	13.7	16.5	11.2	25.2	3.4	19.9	4.9	14.3	18.3	11.0

Notes
ug/kg=Micrograms per kilogram
mg/kg = Milligrams per kilogram.
< = Not detected at or above the method detection limit indicated.
J = Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
---- = Not analyzed or calculated for this parameter or not applicable.
MDL = Method detection limits for other parameters that are not listed individually in this table because their concentrations were below method detection limits provided in the laboratory report.
Bold - Compound Detected
Highlighted: Compound exceeds NDDoH Standard for either soil or groundwater. Note: NDDoH Standards do not address all compounds listed.

BRAUN INTERTEC

Appendix A

Standard Operating Procedures

A. Purpose

The objective of this Standard Operating Procedure (SOP) is to establish a consistent method and format for visual identification and description of soil samples collected in the field. This SOP is applicable to soil samples collected during completion of soil borings (see SOP 203 – Soil Boring Observation and Sampling) and test trench excavations (see SOP 211 – Test Pit and Test Trench Observation and Sampling).

B. Health and Safety

Field work should be performed in accordance with the *Braun Intertec Corporate Health and Safety Manual Standard Operating Procedures* and the site-specific health and safety plan (HASP).

C. Referenced SOPs

- SOP 101 – Field Notes and Documentation
- SOP 203 – Soil Boring Observation and Sampling
- SOP 208 – Soil Grab Sample Collection
- SOP 209 – Soil Composite Sample Collection
- SOP 210 – Soil Stockpile Sampling
- SOP 211 – Test Pit and Test Trench Observation and Sampling

D. Equipment and Supplies

- Soil boring or test trench log forms (see SOP 203 – Soil Boring Observation and Sampling or SOP 211 – Test Pit and Test Trench Observation and Sampling)
- Field report form (see SOP 101 – Field Notes and Documentation) or field logbook
- Waterproof and/or indelible ink pens

E. Procedure

As soil samples are collected in the field, a visual identification and description will be completed as described below. The *Standard Practice for Description and Identification of Soils* (American Society for Testing and Materials [ASTM] D2488-00) was used to prepare this SOP, and soil descriptions should follow that document as applicable.

When visually describing soils in the field, the following information should be provided at a minimum; however, more detailed descriptions are encouraged.

Prepare the soil description **in the order shown**. All field personnel should have a laminated copy of the Field Guide for Soil and Stratigraphic Analysis and use this field guide for classification of soil.

E.1. Main Soil

A description of the main soil group name using the United Soil Classification System (USCS) nomenclature (e.g., gravel, sand, silt, clay, silty sand, clayey sand, organic soil, etc.).

E.3. Group Symbol

List the Group Symbol in parenthesis after the main soil group name. Group symbols include the following:

- CL = Lean Clay; Lean Clay with Sand
- ML = Silt; Silt with Sand
- CH = Fat Clay
- OL/OH = Organic Soils
- GW/GP = Well Graded Gravel/Poorly Graded Gravel
- GP-SM = Poorly Graded Gravel with Silt
- GP-SC = Poorly Graded Gravel with Clay
- GM= Silty Gravel
- GC = Clayey Gravel
- SW/SP = Well Graded Sand/Poorly Graded Sand
- SP-SM = Poorly Graded Sand with Silt
- SP-SC = Poorly Graded Sand with Clay
- SM = Silty Sand
- SC = Clayey Sand

E.4. Color

Describe the color of the main soil group (e.g., brown, gray, etc.). Preferably, the color should be identified using a Munsell® Soil Color Chart. The soil color should be described for moist samples. If the soil sample contains layers or patches of varying colors (e.g., mottled), this should be noted and representative colors shall be described. If the color described is for dry soils, this must be noted on the log.

E.5. Moisture

Describe the overall moisture of the soil sample using the terms dry, moist, or wet (do not use the term "saturated"):

- Dry = absence of moisture, dusty, dry
- Moist = damp, but no visible water
- Wet = visible water; usually soil is below the water table or perched water

E.6. Percentage by Weight

Describe the percentage by weight of the soil type(s) present in the sample using ASTM adjectives based on the percentages present within the sample:

- Trace = < 5%
- Few = 5 to 10%
- Little = 10 to 25%
- Some = 30 to 45%
- Mostly = 50 to 100%

E.7. Grain Size

Coarse-grained Soil

If the soil is coarse-grained (i.e., sand or gravel), include a brief description of the predominant particle grain size(s) (e.g., fine, medium, coarse) (see field guide).

Fine-grained Soil

If the soil is fine-grained (i.e., clay or silt), describe the consistency based on finger pressure:

- Very soft = thumb will penetrate soil more than 1 inch
- Soft = thumb will penetrate soil about 1 inch
- Firm = thumb will penetrate soil about 1/4 inch
- Hard = thumb will not indent soil, but thumbnail will easily make a mark
- Very hard = thumbnail will not indent soil

E.8. Plasticity

Describe the plasticity of the soil sample as follows:

- Nonplastic = A 1/8-inch (3-mm) thread cannot be rolled at any water content.
- Low = The thread can barely be rolled, and the lump cannot be formed when drier than the plastic limit.
- Medium = The thread is easily rolled and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
- High = It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.

E.9. Structure

Describe any structures present in the soil sample as follows:

- Stratified = alternating layer of varying materials or color layers at least 1/4 inch or greater, note thickness.
- Laminated = alternating layer of varying materials or color layers less than 1/4 inch thick, note thickness.
- Fissured = Breaks along definite planes of fracture with little resistant to fracturing.
- Slickensided = Fracture planes appear polished or glossy.
- Blocky = cohesive soil that can be broken down into angular lumps which resist further breakdown.
- Lensed = Inclusions of small pockets of different soils such as small lenses of sand scattered in a mass of clay, note thickness.
- Homogeneous = same color and appearance throughout.

E.10. Mottling

Mottling is a patchwork of different colors in mineral soil (usually orange or rust against a background of grey or blue) which indicates periods of anaerobic (wet) conditions. If mottling is present, note the fraction of the sample that is mottled (e.g., 1/2 mottled and the color of the mottle).

E.11. Cementation

Note if any cementation is present.

E.12. Unusual Materials or Debris

Note the presence of any unusual materials or debris (e.g., bricks, glass, wood). Include the specific depth interval of the occurrence of unique material in the description or in the Remarks. See SOP 203 – Soil Boring Observation and Sampling, SOP 210 – Soil Stockpile Sampling, and SOP 211 – Test Pit and Test Trench Observation and Sampling for additional information.

E.13. Odor

Indicate any odors that are present such as organic or unusual odors. Soils that have a significant amount of organic content usually have a distinct color and odor. If the odor is of decaying vegetation, state that there is an "organic odor" present. If the odor is unusual (petroleum, herbicides, chemicals) describe the odor intensity (strong, moderate, mild, no odor) and a general descriptor. However, do not use specific chemical names to describe the odor. For example stating that "a strong chemical odor is present from 2 to 3 feet below ground surface (bgs)" is correct; however, stating that the soil "has a gasoline odor" is NOT correct.

Note: When smelling soil, do not inhale deeply or repeatedly; the chemicals present may represent a health risk.

E.14. Fill

If the soil is fill or probable fill, note in brackets (e.g., [fill], [probable fill]).

Waste/debris terminology should be as specific and descriptive as possible (e.g., concrete and glass vs. demolition debris). Category names of waste/debris should not be used. Imprecise or incorrect terminology may cause undue concern among regulators. Several important distinctions should be drawn:

- **Wood:** The term wood should not be used alone. Differentiate between tree/brush waste and lumber. To the extent feasible, lumber should be further qualified as unadulterated or treated and the type of treatment described (e.g., painted, green treated, brown treated, creosote, etc).
- **Debris:** The term debris should not be used alone. Most often, the term is used to refer to demolition debris; however, the distinction should be drawn between demolition debris consisting of road/paving demolition debris and building demolition debris.
    - Note and carefully describe the presence of concrete pieces or blocks, bricks, bituminous, recycled gravel, pipe, or tubing.
    - Asbestos is more frequently associated with building demolition debris; although, it can also be present with road/paving materials, particularly in cementitious utility conduits.
    - Household waste or garbage should be noted as such if present.
- **Sizes/Amounts:** Qualitative terms like small, medium, large, etc., should be avoided in favor of dimensions (i.e., inches, feet, etc), unless they are defined by ASTM or other commonly understood conventions. When reasonable, descriptions of sizes and percentages should be quantitative (e.g., "3 to 4 feet" or "less than 1 percent [%]") rather than qualitative (e.g., "large") or semi-quantitative (e.g., "several," or "a few").

E.15. Example

The following are examples of correct visual soil classifications:

- Silty sand (SM), dark brown (10YR 3/3), moist, mostly sand with some low plasticity fines and trace gravel, sand grains are fine to medium grained, firm, homogeneous.
- Clay (CL), gray (7.5YR 5/1), wet, mostly fines with trace sand, medium to high plasticity, soft, laminated, moderate chemical odor(s) [fill].
- Poorly Graded Sand (SP), dark brown (10YR 3/3), moist, mostly coarse-grained sand, trace fine sand, non-plastic, homogenous, debris present [debris fill]. Debris present from 4 to 5 feet bgs. Debris content is 25-30 % of the material and consists mostly of concrete (4 to 6 inches in diameter), and some broken glass (< 1 inch in diameter).

E.16. Groundwater

If and when groundwater is encountered, note the depth to water in the log.

E.17. Collecting Soil Samples

If soil samples are collected for laboratory analysis, refer to the appropriate SOPs including SOP 203 – Soil Boring Observation and Sampling, SOP 208 – Soil Grab Sample Collection, SOP 209 – Soil Composite Sample Collection, SOP 210 – Soil Stockpile Sampling, and SOP 211 – Test Pit and Test Trench Observation and Sampling.

E.18. Geotechnical Logs

To ensure consistent logs across Braun Intertec disciplines, soil samples will be collected and classified by a Braun Intertec Geotechnical Engineer. The Geotechnical Engineer's log is a supplement to the field log and is not meant to be a replacement for the field log.

Place one or more representative portions of each two-foot interval into sealable moisture-proof containers (jars or quart-sized polyethylene sealable bags) without ramming or distorting any apparent stratification. Seal the containers to prevent evaporation of soil moisture.

Affix labels to the containers indicating job designation, boring number, and sample depth. If there is a soil change within the interval, collect a soil sample for each stratum and note its depth.

Deliver the samples to the soil classification lab in the Bloomington office. Include a copy of the soil boring log form.

E.19. Data and Records Management

Observations should be documented in accordance with SOP 101 – Field Notes and Documentation.

E.20. Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) procedures described in the work plan should be followed.

Appendix B

Laboratory Reports

Friday, February 19, 2016

Paul Miller
Braun Intertec
1341 South 20th St
Bismarck, ND 58504

Re: ALS Workorder: 1602229
Project Name: DOWL
Project Number: B1601155

Dear Mr. Miller:

Twenty soil samples and one water sample were received from Braun Intertec, on 2/18/2016. The samples were scheduled for the following analyses:

GC/MS Volatiles
Total Extractable Petroleum Hydrocarbons (Diesel)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

1602229

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The samples were also analyzed for Gasoline Range Organics (GRO).

- All compounds in each of the daily (continuing) calibration verifications were within 20%D with the exception of iodomethane which was low on 02/19/16 HPV3. This compound was not detected in the associated sample.

- All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the exception of iodomethane which was low. Because of the large number of target analytes reported by this method, the lab allows for sporadic exceedances. No further action was taken.

All remaining acceptance criteria were met.

DRO:
The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated for dro extends from C10 to C21 and motor oil extends from C21-C32.

For soil samples, the upper control limit for surrogate recovery is 114% for this analytical method. Sample 1602229-5 in this work order had a surrogate recovery of 165%. All other preparatory and analytical batch QC indicators were passing, with no observed biases or anomalies. The result for sample 1602229-5 is reported for rush turnaround. This sample will be re-extracted and re-analyzed to confirm/deny the high surrogate recovery.

The RPD was out high in sample 1602229-6DUP. This could be due to the non-homogenous nature of the sample.

All remaining acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1602229
Client Name: Braun Intertec
Client Project Name: DOWL
Client Project Number: B1601155
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
SB-5 (5)	1602229-1		SOIL	16-Feb-16	9:30
SB-5 (10)	1602229-2		SOIL	16-Feb-16	9:35
SB-6 (5)	1602229-3		SOIL	16-Feb-16	10:05
SB-6 (10)	1602229-4		SOIL	16-Feb-16	10:10
SB-7 (4)	1602229-5		SOIL	16-Feb-16	10:35
SB-7 (8)	1602229-6		SOIL	16-Feb-16	10:40
SB-8 (4)	1602229-7		SOIL	16-Feb-16	11:00
SB-8 (8)	1602229-8		SOIL	16-Feb-16	11:05
SB-9 (4)	1602229-9		SOIL	16-Feb-16	11:20
SB-9 (8)	1602229-10		SOIL	16-Feb-16	11:25
SB-10 (5)	1602229-11		SOIL	16-Feb-16	11:45
SB-10 (10)	1602229-12		SOIL	16-Feb-16	11:50
SB-4 (4)	1602229-13		SOIL	16-Feb-16	12:20
SB-4 (8)	1602229-14		SOIL	16-Feb-16	12:25
SB-3 (5)	1602229-15		SOIL	16-Feb-16	13:00
SB-3 (10)	1602229-16		SOIL	16-Feb-16	13:05
SB-2 (6)	1602229-17		SOIL	16-Feb-16	13:30
SB-2 (12)	1602229-18		SOIL	16-Feb-16	13:35
SB-1 (4)	1602229-19		SOIL	16-Feb-16	14:00
SB-1 (8)	1602229-20		SOIL	16-Feb-16	14:05
TRIP BLANK	1602229-21		WATER	16-Feb-16	

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER #	
1602229	
PAGE	1 of 2
DISPOSAL	BY LAB or RETURN

PROJECT NAME	Dowl	TURNAROUND TIME	24hr	SAMPLER	Christian Forster
PROJECT No.	P0160115	SITE ID			
		EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME	Braun Intertec	BILL TO COMPANY	Same		
SEND REPORT TO	Paul Miller	INVOICE ATTN TO			
ADDRESS	1341 S 20th St.	ADDRESS			
CITY / STATE / ZIP	Bismark, ND 58501	CITY / STATE / ZIP			
PHONE	701-255-7160	PHONE			
FAX		FAX			
E-MAIL	PaMiller@BraunIntertec.com	E-MAIL			

PARAMETER/METHOD REQUEST FOR ANALYSIS

A	VOC
B	TVPH/GRO
C	TEPH/DRO
D	
E	
F	
G	
H	
I	
J	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
1	SB-5 (5)	Soil	2/16	0930	5	MeOH		X	X	X								
2	SB-5 (10)			0935														
3	SB-6 (5)			1005														
4	SB-6 (10)			1010														
5	SB-7 (4)			1035														
6	SB-7 (8)			1040														
7	SB-8 (4)			1100														
8	SB-8 (8)			1105														
9	SB-9 (4)			1120														
10	SB-9 (8)			1125														
11	SB-10 (5)			1145														
12	SB-10 (10)			1150														

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES

REPORT LEVEL / QC REQUIRED	
	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Christian Forster	2/17	0800
RECEIVED BY		Scott Malby	2-18-16	0800
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.

Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER #	1602229
PAGE	2 of 2
DISPOSAL	BY LAB or RETURN

TURNAROUND TIME	24 hr	SAMPLER	Christin Forster		
PROJECT NAME	See Pg 1	SITE ID	See Pg 1		
PROJECT No.		EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME		BILL TO COMPANY			
SEND REPORT TO		INVOICE ATTN TO			
ADDRESS		ADDRESS			
CITY / STATE / ZIP		CITY / STATE / ZIP			
PHONE		PHONE			
FAX		FAX			
E-MAIL		E-MAIL			

PARAMETER/METHOD REQUEST FOR ANALYSIS

A	VOC
B	TVPH / GRO
C	TEPH / DRO
D	
E	
F	
G	
H	
I	
J	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
13	SB-4 (4)	Soil	2/16	1220	5	MeOH		X	X	X								
14	SB-4 (8)			1225														
15	SB-3 (5)			1300														
16	SB-3 (10)			1305														
17	SB-2 (6)			1330														
18	SB-2 (12)			1335														
19	SB-1 (4)			1400														
20	SB-1 (8)			1405														

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES

REPORT LEVEL / QC REQUIRED	
	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY				
RECEIVED BY	[signature]	Scott Malky	2-18-16	0800
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: Braun Intertec Workorder No: 1602229

Project Manager: JME Initials: SDM Date: 2-18-16

1. Does this project require any special handling in addition to standard ALS procedures?			YES	(NO)
2. Are custody seals on shipping containers intact?	NONE		(YES)	NO
3. Are Custody seals on sample containers intact?	(NONE)		YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?			(YES)	NO
5. Are the COC and bottle labels complete and legible?			(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)			YES	(NO)
7. Were airbills / shipping documents present and/or removable?	DROP OFF		(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	(N/A)		YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)		YES	NO
10. Is there sufficient sample for the requested analyses?			(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?			(YES)	NO
12. Are all samples within holding times for the requested analyses?			(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)			(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	(N/A)		YES	NO
15. Do any water samples contain sediment? Amount of sediment: ____ dusting ____ moderate ____ heavy	(N/A)		YES	NO
16. Were the samples shipped on ice?			(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY		(YES)	NO

Cooler #:	1							
Temperature (°C):	0.6							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	10							
Background µR/hr reading:	9							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

6.) Sample 21 (trip blanks) were not on the COC. (2 bottles shipped.)

noted - still analyze

If applicable, was the client contacted? YES / NO (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 2/18/16

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

1602229

ORIGIN ID:BISA (701) 255-7180
AMANDA EBACK
BRAUN INTERTEC
1341 SOUTH 20TH STREET

BISMARCK, ND 58504
UNITED STATES US

SHIP DATE: 17FEB16
ACTWGT: 51.00 LB
CAD: 101564979/INET3730
DIMS: 24x14x14 IN

BILL SENDER

TO

ALS ENVIRONMENTAL
225 COMMERCE DR.

FORT COLLINS CO 80524
(197) 049-0151
INV:
PO:
REF:
DEPT:

10
-1
0.6°c

5:0J1/97D7/7/27/F

FedEx Express

J1810101401uv

THU - 18 FEB 8:30A
FIRST OVERNIGHT

TRK# 0201 7756 6431 2967

X1 FTCA

80524
CO-US DEN

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-5 (5)
Legal Location:
Collection Date: 2/16/2016 09:30

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-1
Matrix: SOIL
Percent Moisture: 15.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.7	MG/KG	1	2/19/2016 10:51
MOTOR OIL RANGE ORGANICS	**5.1**	J	**5.7**	**MG/KG**	1	2/19/2016 10:51
Surr: O-TERPHENYL	*85*		*49-114*	*%REC*	1	2/19/2016 10:51
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
VINYL CHLORIDE	ND		4.3	UG/KG	1	2/18/2016 13:56
BROMOMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
TRICHLOROFLUOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
ACETONE	**8**	J	**17**	**UG/KG**	1	2/18/2016 13:56
IODOMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CARBON DISULFIDE	ND		4.3	UG/KG	1	2/18/2016 13:56
METHYLENE CHLORIDE	ND		4.3	UG/KG	1	2/18/2016 13:56
TRANS-1,2-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 13:56
METHYL TERTIARY BUTYL ETHER	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1-DICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
VINYL ACETATE	ND		17	UG/KG	1	2/18/2016 13:56
CIS-1,2-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 13:56
2-BUTANONE	ND		17	UG/KG	1	2/18/2016 13:56
BROMOCHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CHLOROFORM	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1,1-TRICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
2,2-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CARBON TETRACHLORIDE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2-DICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
BENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
TRICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 13:56
DIBROMOMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
BROMODICHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
CIS-1,3-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 13:56
4-METHYL-2-PENTANONE	ND		17	UG/KG	1	2/18/2016 13:56
TOLUENE	ND		4.3	UG/KG	1	2/18/2016 13:56
TRANS-1,3-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1,2-TRICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
2-HEXANONE	ND		17	UG/KG	1	2/18/2016 13:56
TETRACHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,3-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 13:56
DIBROMOCHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2-DIBROMOETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
1-CHLOROHEXANE	ND		4.3	UG/KG	1	2/18/2016 13:56

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-5 (5)
Legal Location:
Collection Date: 2/16/2016 09:30

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-1
Matrix: SOIL
Percent Moisture: 15.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1,1,2-TETRACHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
ETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
M+P-XYLENE	ND		4.3	UG/KG	1	2/18/2016 13:56
O-XYLENE	ND		4.3	UG/KG	1	2/18/2016 13:56
STYRENE	ND		4.3	UG/KG	1	2/18/2016 13:56
BROMOFORM	ND		4.3	UG/KG	1	2/18/2016 13:56
ISOPROPYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2,3-TRICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,1,2,2-TETRACHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 13:56
BROMOBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
N-PROPYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
2-CHLOROTOLUENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,3,5-TRIMETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
4-CHLOROTOLUENE	ND		4.3	UG/KG	1	2/18/2016 13:56
TERT-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2,4-TRIMETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
SEC-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,3-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
P-ISOPROPYLTOLUENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,4-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
N-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.6	UG/KG	1	2/18/2016 13:56
1,2,4-TRICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
HEXACHLOROBUTADIENE	ND		4.3	UG/KG	1	2/18/2016 13:56
NAPHTHALENE	ND		4.3	UG/KG	1	2/18/2016 13:56
1,2,3-TRICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 13:56
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 13:56
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 13:56
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	2/18/2016 13:56
GASOLINE RANGE ORGANICS	ND		430	UG/KG	1	2/18/2016 13:56

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-5 (10)
Legal Location:
Collection Date: 2/16/2016 09:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-2
Matrix: SOIL
Percent Moisture: 16.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**2.2**	J	**6**	**MG/KG**	1	2/19/2016 11:25
MOTOR OIL RANGE ORGANICS	**8.2**	MH	**6**	**MG/KG**	1	2/19/2016 11:25
Surr: O-TERPHENYL	*85*		*49-114*	*%REC*	1	2/19/2016 11:25
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
VINYL CHLORIDE	ND		4.3	UG/KG	1	2/18/2016 14:19
BROMOMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
TRICHLOROFLUOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
ACETONE	**10**	J	**17**	**UG/KG**	1	2/18/2016 14:19
IODOMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CARBON DISULFIDE	ND		4.3	UG/KG	1	2/18/2016 14:19
METHYLENE CHLORIDE	ND		4.3	UG/KG	1	2/18/2016 14:19
TRANS-1,2-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 14:19
METHYL TERTIARY BUTYL ETHER	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1-DICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
VINYL ACETATE	ND		17	UG/KG	1	2/18/2016 14:19
CIS-1,2-DICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 14:19
2-BUTANONE	ND		17	UG/KG	1	2/18/2016 14:19
BROMOCHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CHLOROFORM	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1,1-TRICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
2,2-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CARBON TETRACHLORIDE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2-DICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
BENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
TRICHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 14:19
DIBROMOMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
BROMODICHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
CIS-1,3-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 14:19
4-METHYL-2-PENTANONE	ND		17	UG/KG	1	2/18/2016 14:19
TOLUENE	ND		4.3	UG/KG	1	2/18/2016 14:19
TRANS-1,3-DICHLOROPROPENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1,2-TRICHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
2-HEXANONE	ND		17	UG/KG	1	2/18/2016 14:19
TETRACHLOROETHENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,3-DICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 14:19
DIBROMOCHLOROMETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2-DIBROMOETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
1-CHLOROHEXANE	ND		4.3	UG/KG	1	2/18/2016 14:19

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-5 (10)
Legal Location:
Collection Date: 2/16/2016 09:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-2
Matrix: SOIL
Percent Moisture: 16.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1,1,2-TETRACHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
ETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
M+P-XYLENE	ND		4.3	UG/KG	1	2/18/2016 14:19
O-XYLENE	ND		4.3	UG/KG	1	2/18/2016 14:19
STYRENE	ND		4.3	UG/KG	1	2/18/2016 14:19
BROMOFORM	ND		4.3	UG/KG	1	2/18/2016 14:19
ISOPROPYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2,3-TRICHLOROPROPANE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,1,2,2-TETRACHLOROETHANE	ND		4.3	UG/KG	1	2/18/2016 14:19
BROMOBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
N-PROPYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
2-CHLOROTOLUENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,3,5-TRIMETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
4-CHLOROTOLUENE	ND		4.3	UG/KG	1	2/18/2016 14:19
TERT-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2,4-TRIMETHYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
SEC-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,3-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
P-ISOPROPYLTOLUENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,4-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
N-BUTYLBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2-DICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.6	UG/KG	1	2/18/2016 14:19
1,2,4-TRICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
HEXACHLOROBUTADIENE	ND		4.3	UG/KG	1	2/18/2016 14:19
NAPHTHALENE	ND		4.3	UG/KG	1	2/18/2016 14:19
1,2,3-TRICHLOROBENZENE	ND		4.3	UG/KG	1	2/18/2016 14:19
Surr: DIBROMOFLUOROMETHANE	*101*		*61-134*	*%REC*	1	2/18/2016 14:19
Surr: TOLUENE-D8	*99*		*57-135*	*%REC*	1	2/18/2016 14:19
Surr: 4-BROMOFLUOROBENZENE	*102*		*52-151*	*%REC*	1	2/18/2016 14:19
GASOLINE RANGE ORGANICS	ND		430	UG/KG	1	2/18/2016 14:19

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-6 (5)
Legal Location:
Collection Date: 2/16/2016 10:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-3
Matrix: SOIL
Percent Moisture: 13.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**3**	J	**5.8**	**MG/KG**	1	2/19/2016 11:58
MOTOR OIL RANGE ORGANICS	**20**	MH	**5.8**	**MG/KG**	1	2/19/2016 11:58
Surr: O-TERPHENYL	*85*		*49-114*	*%REC*	1	2/19/2016 11:58
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
VINYL CHLORIDE	ND		2.8	UG/KG	1	2/18/2016 14:43
BROMOMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
TRICHLOROFLUOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
ACETONE	ND		11	UG/KG	1	2/18/2016 14:43
IODOMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CARBON DISULFIDE	ND		2.8	UG/KG	1	2/18/2016 14:43
METHYLENE CHLORIDE	ND		2.8	UG/KG	1	2/18/2016 14:43
TRANS-1,2-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 14:43
METHYL TERTIARY BUTYL ETHER	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1-DICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
VINYL ACETATE	ND		11	UG/KG	1	2/18/2016 14:43
CIS-1,2-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 14:43
2-BUTANONE	ND		11	UG/KG	1	2/18/2016 14:43
BROMOCHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CHLOROFORM	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1,1-TRICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
2,2-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CARBON TETRACHLORIDE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2-DICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
BENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
TRICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 14:43
DIBROMOMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
BROMODICHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
CIS-1,3-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 14:43
4-METHYL-2-PENTANONE	ND		11	UG/KG	1	2/18/2016 14:43
TOLUENE	ND		2.8	UG/KG	1	2/18/2016 14:43
TRANS-1,3-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1,2-TRICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
2-HEXANONE	ND		11	UG/KG	1	2/18/2016 14:43
TETRACHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,3-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 14:43
DIBROMOCHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2-DIBROMOETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
1-CHLOROHEXANE	ND		2.8	UG/KG	1	2/18/2016 14:43

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-6 (5)
Legal Location:
Collection Date: 2/16/2016 10:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-3
Matrix: SOIL
Percent Moisture: 13.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1,1,2-TETRACHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
ETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
M+P-XYLENE	ND		2.8	UG/KG	1	2/18/2016 14:43
O-XYLENE	ND		2.8	UG/KG	1	2/18/2016 14:43
STYRENE	ND		2.8	UG/KG	1	2/18/2016 14:43
BROMOFORM	ND		2.8	UG/KG	1	2/18/2016 14:43
ISOPROPYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2,3-TRICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,1,2,2-TETRACHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 14:43
BROMOBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
N-PROPYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
2-CHLOROTOLUENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,3,5-TRIMETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
4-CHLOROTOLUENE	ND		2.8	UG/KG	1	2/18/2016 14:43
TERT-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2,4-TRIMETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
SEC-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,3-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
P-ISOPROPYLTOLUENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,4-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
N-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2-DIBROMO-3-CHLOROPROPANE	ND		5.6	UG/KG	1	2/18/2016 14:43
1,2,4-TRICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
HEXACHLOROBUTADIENE	ND		2.8	UG/KG	1	2/18/2016 14:43
NAPHTHALENE	ND		2.8	UG/KG	1	2/18/2016 14:43
1,2,3-TRICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 14:43
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 14:43
Surr: TOLUENE-D8	*100*		*57-135*	*%REC*	1	2/18/2016 14:43
Surr: 4-BROMOFLUOROBENZENE	*100*		*52-151*	*%REC*	1	2/18/2016 14:43
GASOLINE RANGE ORGANICS	ND		280	UG/KG	1	2/18/2016 14:43

Client: Braun Intertec
Date: *19-Feb-16*
Project: B1601155 DOWL
Work Order: 1602229
Sample ID: SB-6 (10)
Lab ID: 1602229-4
Legal Location:
Matrix: SOIL
Collection Date: 2/16/2016 10:10
Percent Moisture: 16.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.7	MG/KG	1	2/19/2016 11:55
MOTOR OIL RANGE ORGANICS	**5.3**	J	**5.7**	**MG/KG**	1	2/19/2016 11:55
Surr: O-TERPHENYL	*71*		*49-114*	*%REC*	1	2/19/2016 11:55
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
VINYL CHLORIDE	ND		2.8	UG/KG	1	2/18/2016 15:06
BROMOMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
TRICHLOROFLUOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
ACETONE	**18**		**11**	**UG/KG**	1	2/18/2016 15:06
IODOMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CARBON DISULFIDE	ND		2.8	UG/KG	1	2/18/2016 15:06
METHYLENE CHLORIDE	ND		2.8	UG/KG	1	2/18/2016 15:06
TRANS-1,2-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 15:06
METHYL TERTIARY BUTYL ETHER	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1-DICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
VINYL ACETATE	ND		11	UG/KG	1	2/18/2016 15:06
CIS-1,2-DICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 15:06
2-BUTANONE	ND		11	UG/KG	1	2/18/2016 15:06
BROMOCHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CHLOROFORM	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1,1-TRICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
2,2-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CARBON TETRACHLORIDE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2-DICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
BENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
TRICHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 15:06
DIBROMOMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
BROMODICHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
CIS-1,3-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 15:06
4-METHYL-2-PENTANONE	ND		11	UG/KG	1	2/18/2016 15:06
TOLUENE	ND		2.8	UG/KG	1	2/18/2016 15:06
TRANS-1,3-DICHLOROPROPENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1,2-TRICHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
2-HEXANONE	ND		11	UG/KG	1	2/18/2016 15:06
TETRACHLOROETHENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,3-DICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 15:06
DIBROMOCHLOROMETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2-DIBROMOETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
1-CHLOROHEXANE	ND		2.8	UG/KG	1	2/18/2016 15:06

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-6 (10)
Legal Location:
Collection Date: 2/16/2016 10:10

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-4
Matrix: SOIL
Percent Moisture: 16.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1,1,2-TETRACHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
ETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
M+P-XYLENE	ND		2.8	UG/KG	1	2/18/2016 15:06
O-XYLENE	ND		2.8	UG/KG	1	2/18/2016 15:06
STYRENE	ND		2.8	UG/KG	1	2/18/2016 15:06
BROMOFORM	ND		2.8	UG/KG	1	2/18/2016 15:06
ISOPROPYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2,3-TRICHLOROPROPANE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,1,2,2-TETRACHLOROETHANE	ND		2.8	UG/KG	1	2/18/2016 15:06
BROMOBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
N-PROPYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
2-CHLOROTOLUENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,3,5-TRIMETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
4-CHLOROTOLUENE	ND		2.8	UG/KG	1	2/18/2016 15:06
TERT-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2,4-TRIMETHYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
SEC-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,3-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
P-ISOPROPYLTOLUENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,4-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
N-BUTYLBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2-DICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2-DIBROMO-3-CHLOROPROPANE	ND		5.6	UG/KG	1	2/18/2016 15:06
1,2,4-TRICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
HEXACHLOROBUTADIENE	ND		2.8	UG/KG	1	2/18/2016 15:06
NAPHTHALENE	ND		2.8	UG/KG	1	2/18/2016 15:06
1,2,3-TRICHLOROBENZENE	ND		2.8	UG/KG	1	2/18/2016 15:06
Surr: DIBROMOFLUOROMETHANE	*97*		*61-134*	*%REC*	1	2/18/2016 15:06
Surr: TOLUENE-D8	*100*		*57-135*	*%REC*	1	2/18/2016 15:06
Surr: 4-BROMOFLUOROBENZENE	*104*		*52-151*	*%REC*	1	2/18/2016 15:06
GASOLINE RANGE ORGANICS	ND		280	UG/KG	1	2/18/2016 15:06

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-7 (4)
Legal Location:
Collection Date: 2/16/2016 10:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-5
Matrix: SOIL
Percent Moisture: 11.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**7.9**	J	**22**	**MG/KG**	4	2/18/2016 23:32
MOTOR OIL RANGE ORGANICS	**210**	MH	**22**	**MG/KG**	4	2/18/2016 23:32
Surr: O-TERPHENYL	*165*	*	*49-114*	*%REC*	4	2/18/2016 23:32
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CHLOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
VINYL CHLORIDE	ND		3.3	UG/KG	1	2/18/2016 15:29
BROMOMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
TRICHLOROFLUOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1-DICHLOROETHENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
ACETONE	ND		13	UG/KG	1	2/18/2016 15:29
IODOMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CARBON DISULFIDE	ND		3.3	UG/KG	1	2/18/2016 15:29
METHYLENE CHLORIDE	ND		3.3	UG/KG	1	2/18/2016 15:29
TRANS-1,2-DICHLOROETHENE	ND		3.3	UG/KG	1	2/18/2016 15:29
METHYL TERTIARY BUTYL ETHER	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1-DICHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
VINYL ACETATE	ND		13	UG/KG	1	2/18/2016 15:29
CIS-1,2-DICHLOROETHENE	ND		3.3	UG/KG	1	2/18/2016 15:29
2-BUTANONE	ND		13	UG/KG	1	2/18/2016 15:29
BROMOCHLOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CHLOROFORM	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1,1-TRICHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
2,2-DICHLOROPROPANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CARBON TETRACHLORIDE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1-DICHLOROPROPENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2-DICHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
BENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
TRICHLOROETHENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2-DICHLOROPROPANE	ND		3.3	UG/KG	1	2/18/2016 15:29
DIBROMOMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
BROMODICHLOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
CIS-1,3-DICHLOROPROPENE	ND		3.3	UG/KG	1	2/18/2016 15:29
4-METHYL-2-PENTANONE	ND		13	UG/KG	1	2/18/2016 15:29
TOLUENE	ND		3.3	UG/KG	1	2/18/2016 15:29
TRANS-1,3-DICHLOROPROPENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1,2-TRICHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
2-HEXANONE	ND		13	UG/KG	1	2/18/2016 15:29
TETRACHLOROETHENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,3-DICHLOROPROPANE	ND		3.3	UG/KG	1	2/18/2016 15:29
DIBROMOCHLOROMETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2-DIBROMOETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
1-CHLOROHEXANE	ND		3.3	UG/KG	1	2/18/2016 15:29

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-7 (4)
Legal Location:
Collection Date: 2/16/2016 10:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-5
Matrix: SOIL
Percent Moisture: 11.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1,1,2-TETRACHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
ETHYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
M+P-XYLENE	ND		3.3	UG/KG	1	2/18/2016 15:29
O-XYLENE	ND		3.3	UG/KG	1	2/18/2016 15:29
STYRENE	ND		3.3	UG/KG	1	2/18/2016 15:29
BROMOFORM	ND		3.3	UG/KG	1	2/18/2016 15:29
ISOPROPYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2,3-TRICHLOROPROPANE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,1,2,2-TETRACHLOROETHANE	ND		3.3	UG/KG	1	2/18/2016 15:29
BROMOBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
N-PROPYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
2-CHLOROTOLUENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,3,5-TRIMETHYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
4-CHLOROTOLUENE	ND		3.3	UG/KG	1	2/18/2016 15:29
TERT-BUTYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2,4-TRIMETHYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
SEC-BUTYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,3-DICHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
P-ISOPROPYLTOLUENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,4-DICHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
N-BUTYLBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2-DICHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2-DIBROMO-3-CHLOROPROPANE	ND		6.6	UG/KG	1	2/18/2016 15:29
1,2,4-TRICHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
HEXACHLOROBUTADIENE	ND		3.3	UG/KG	1	2/18/2016 15:29
NAPHTHALENE	ND		3.3	UG/KG	1	2/18/2016 15:29
1,2,3-TRICHLOROBENZENE	ND		3.3	UG/KG	1	2/18/2016 15:29
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 15:29
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 15:29
Surr: 4-BROMOFLUOROBENZENE	*103*		*52-151*	*%REC*	1	2/18/2016 15:29
GASOLINE RANGE ORGANICS	ND		330	UG/KG	1	2/18/2016 15:29

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-7 (8)
Legal Location:
Collection Date: 2/16/2016 10:40

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-6
Matrix: SOIL
Percent Moisture: 25.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**75**	LD	**6.5**	**MG/KG**	1	2/18/2016 15:11
MOTOR OIL RANGE ORGANICS	**48**	MH	**6.5**	**MG/KG**	1	2/18/2016 15:11
Surr: O-TERPHENYL	*89*		*49-114*	*%REC*	1	2/18/2016 15:11
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CHLOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
VINYL CHLORIDE	ND		3.4	UG/KG	1	2/18/2016 21:22
BROMOMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
TRICHLOROFLUOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1-DICHLOROETHENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
ACETONE	**25**		**14**	**UG/KG**	1	2/18/2016 21:22
IODOMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CARBON DISULFIDE	ND		3.4	UG/KG	1	2/18/2016 21:22
METHYLENE CHLORIDE	ND		3.4	UG/KG	1	2/18/2016 21:22
TRANS-1,2-DICHLOROETHENE	ND		3.4	UG/KG	1	2/18/2016 21:22
METHYL TERTIARY BUTYL ETHER	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1-DICHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
VINYL ACETATE	ND		14	UG/KG	1	2/18/2016 21:22
CIS-1,2-DICHLOROETHENE	ND		3.4	UG/KG	1	2/18/2016 21:22
2-BUTANONE	**4.4**	J	**14**	**UG/KG**	1	2/18/2016 21:22
BROMOCHLOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CHLOROFORM	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1,1-TRICHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
2,2-DICHLOROPROPANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CARBON TETRACHLORIDE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1-DICHLOROPROPENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,2-DICHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
BENZENE	**160**	J	**190**	**UG/KG**	50	2/19/2016 13:27
TRICHLOROETHENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,2-DICHLOROPROPANE	ND		3.4	UG/KG	1	2/18/2016 21:22
DIBROMOMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
BROMODICHLOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
CIS-1,3-DICHLOROPROPENE	ND		3.4	UG/KG	1	2/18/2016 21:22
4-METHYL-2-PENTANONE	ND		14	UG/KG	1	2/18/2016 21:22
TOLUENE	ND		3.4	UG/KG	1	2/18/2016 21:22
TRANS-1,3-DICHLOROPROPENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1,2-TRICHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
2-HEXANONE	ND		14	UG/KG	1	2/18/2016 21:22
TETRACHLOROETHENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,3-DICHLOROPROPANE	ND		3.4	UG/KG	1	2/18/2016 21:22
DIBROMOCHLOROMETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,2-DIBROMOETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
1-CHLOROHEXANE	ND		3.4	UG/KG	1	2/18/2016 21:22

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-7 (8)
Legal Location:
Collection Date: 2/16/2016 10:40

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-6
Matrix: SOIL
Percent Moisture: 25.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1,1,2-TETRACHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
ETHYLBENZENE	**310**		**190**	**UG/KG**	50	2/19/2016 13:27
M+P-XYLENE	**730**		**190**	**UG/KG**	50	2/19/2016 13:27
O-XYLENE	**4.9**		**3.4**	**UG/KG**	1	2/18/2016 21:22
STYRENE	ND		3.4	UG/KG	1	2/18/2016 21:22
BROMOFORM	ND		3.4	UG/KG	1	2/18/2016 21:22
ISOPROPYLBENZENE	**32**		**3.4**	**UG/KG**	1	2/18/2016 21:22
1,2,3-TRICHLOROPROPANE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,1,2,2-TETRACHLOROETHANE	ND		3.4	UG/KG	1	2/18/2016 21:22
BROMOBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
N-PROPYLBENZENE	**61**		**3.4**	**UG/KG**	1	2/18/2016 21:22
2-CHLOROTOLUENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,3,5-TRIMETHYLBENZENE	**20**		**3.4**	**UG/KG**	1	2/18/2016 21:22
4-CHLOROTOLUENE	ND		3.4	UG/KG	1	2/18/2016 21:22
TERT-BUTYLBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,2,4-TRIMETHYLBENZENE	**970**		**190**	**UG/KG**	50	2/19/2016 13:27
SEC-BUTYLBENZENE	**7.5**		**3.4**	**UG/KG**	1	2/18/2016 21:22
1,3-DICHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
P-ISOPROPYLTOLUENE	**6.6**		**3.4**	**UG/KG**	1	2/18/2016 21:22
1,4-DICHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
N-BUTYLBENZENE	**9.4**		**3.4**	**UG/KG**	1	2/18/2016 21:22
1,2-DICHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
1,2-DIBROMO-3-CHLOROPROPANE	ND		6.9	UG/KG	1	2/18/2016 21:22
1,2,4-TRICHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
HEXACHLOROBUTADIENE	ND		3.4	UG/KG	1	2/18/2016 21:22
NAPHTHALENE	**77**		**3.4**	**UG/KG**	1	2/18/2016 21:22
1,2,3-TRICHLOROBENZENE	ND		3.4	UG/KG	1	2/18/2016 21:22
Surr: DIBROMOFLUOROMETHANE	*103*		*61-134*	*%REC*	1	2/18/2016 21:22
Surr: DIBROMOFLUOROMETHANE	*96*		*61-134*	*%REC*	50	2/19/2016 13:27
Surr: TOLUENE-D8	*100*		*57-135*	*%REC*	1	2/18/2016 21:22
Surr: TOLUENE-D8	*102*		*57-135*	*%REC*	50	2/19/2016 13:27
Surr: 4-BROMOFLUOROBENZENE	*102*		*52-151*	*%REC*	50	2/19/2016 13:27
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 21:22
GASOLINE RANGE ORGANICS	**2900**		**340**	**UG/KG**	1	2/18/2016 21:22

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-8 (4)
Legal Location:
Collection Date: 2/16/2016 11:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-7
Matrix: SOIL
Percent Moisture: 3.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics		**SW8015M_MO**		Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.1	MG/KG	1	2/18/2016 15:44
MOTOR OIL RANGE ORGANICS	ND		5.1	MG/KG	1	2/18/2016 15:44
Surr: O-TERPHENYL	*92*		*49-114*	*%REC*	1	2/18/2016 15:44
GC/MS Volatiles		**SW8260**		Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CHLOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
VINYL CHLORIDE	ND		2.6	UG/KG	1	2/18/2016 15:53
BROMOMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
TRICHLOROFLUOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1-DICHLOROETHENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
ACETONE	ND		10	UG/KG	1	2/18/2016 15:53
IODOMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CARBON DISULFIDE	ND		2.6	UG/KG	1	2/18/2016 15:53
METHYLENE CHLORIDE	ND		2.6	UG/KG	1	2/18/2016 15:53
TRANS-1,2-DICHLOROETHENE	ND		2.6	UG/KG	1	2/18/2016 15:53
METHYL TERTIARY BUTYL ETHER	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1-DICHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
VINYL ACETATE	ND		10	UG/KG	1	2/18/2016 15:53
CIS-1,2-DICHLOROETHENE	ND		2.6	UG/KG	1	2/18/2016 15:53
2-BUTANONE	ND		10	UG/KG	1	2/18/2016 15:53
BROMOCHLOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CHLOROFORM	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1,1-TRICHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
2,2-DICHLOROPROPANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CARBON TETRACHLORIDE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1-DICHLOROPROPENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2-DICHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
BENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
TRICHLOROETHENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2-DICHLOROPROPANE	ND		2.6	UG/KG	1	2/18/2016 15:53
DIBROMOMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
BROMODICHLOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
CIS-1,3-DICHLOROPROPENE	ND		2.6	UG/KG	1	2/18/2016 15:53
4-METHYL-2-PENTANONE	ND		10	UG/KG	1	2/18/2016 15:53
TOLUENE	ND		2.6	UG/KG	1	2/18/2016 15:53
TRANS-1,3-DICHLOROPROPENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1,2-TRICHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
2-HEXANONE	ND		10	UG/KG	1	2/18/2016 15:53
TETRACHLOROETHENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,3-DICHLOROPROPANE	ND		2.6	UG/KG	1	2/18/2016 15:53
DIBROMOCHLOROMETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2-DIBROMOETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
1-CHLOROHEXANE	ND		2.6	UG/KG	1	2/18/2016 15:53

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-8 (4)
Legal Location:
Collection Date: 2/16/2016 11:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-7
Matrix: SOIL
Percent Moisture: 3.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1,1,2-TETRACHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
ETHYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
M+P-XYLENE	ND		2.6	UG/KG	1	2/18/2016 15:53
O-XYLENE	ND		2.6	UG/KG	1	2/18/2016 15:53
STYRENE	ND		2.6	UG/KG	1	2/18/2016 15:53
BROMOFORM	ND		2.6	UG/KG	1	2/18/2016 15:53
ISOPROPYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2,3-TRICHLOROPROPANE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,1,2,2-TETRACHLOROETHANE	ND		2.6	UG/KG	1	2/18/2016 15:53
BROMOBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
N-PROPYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
2-CHLOROTOLUENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,3,5-TRIMETHYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
4-CHLOROTOLUENE	ND		2.6	UG/KG	1	2/18/2016 15:53
TERT-BUTYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2,4-TRIMETHYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
SEC-BUTYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,3-DICHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
P-ISOPROPYLTOLUENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,4-DICHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
N-BUTYLBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2-DICHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2-DIBROMO-3-CHLOROPROPANE	ND		5.1	UG/KG	1	2/18/2016 15:53
1,2,4-TRICHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
HEXACHLOROBUTADIENE	ND		2.6	UG/KG	1	2/18/2016 15:53
NAPHTHALENE	ND		2.6	UG/KG	1	2/18/2016 15:53
1,2,3-TRICHLOROBENZENE	ND		2.6	UG/KG	1	2/18/2016 15:53
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 15:53
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 15:53
Surr: 4-BROMOFLUOROBENZENE	*106*		*52-151*	*%REC*	1	2/18/2016 15:53
GASOLINE RANGE ORGANICS	ND		260	UG/KG	1	2/18/2016 15:53

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-8 (8)
Legal Location:
Collection Date: 2/16/2016 11:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-8
Matrix: SOIL
Percent Moisture: 19.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics		**SW8015M_MO**		Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		6.2	MG/KG	1	2/18/2016 16:18
MOTOR OIL RANGE ORGANICS	ND		6.2	MG/KG	1	2/18/2016 16:18
Surr: O-TERPHENYL	*88*		*49-114*	*%REC*	1	2/18/2016 16:18
GC/MS Volatiles		**SW8260**		Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CHLOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
VINYL CHLORIDE	ND		3.9	UG/KG	1	2/18/2016 16:16
BROMOMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
TRICHLOROFLUOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1-DICHLOROETHENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
ACETONE	ND		16	UG/KG	1	2/18/2016 16:16
IODOMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CARBON DISULFIDE	ND		3.9	UG/KG	1	2/18/2016 16:16
METHYLENE CHLORIDE	ND		3.9	UG/KG	1	2/18/2016 16:16
TRANS-1,2-DICHLOROETHENE	ND		3.9	UG/KG	1	2/18/2016 16:16
METHYL TERTIARY BUTYL ETHER	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1-DICHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
VINYL ACETATE	ND		16	UG/KG	1	2/18/2016 16:16
CIS-1,2-DICHLOROETHENE	ND		3.9	UG/KG	1	2/18/2016 16:16
2-BUTANONE	ND		16	UG/KG	1	2/18/2016 16:16
BROMOCHLOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CHLOROFORM	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1,1-TRICHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
2,2-DICHLOROPROPANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CARBON TETRACHLORIDE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1-DICHLOROPROPENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2-DICHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
BENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
TRICHLOROETHENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2-DICHLOROPROPANE	ND		3.9	UG/KG	1	2/18/2016 16:16
DIBROMOMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
BROMODICHLOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
CIS-1,3-DICHLOROPROPENE	ND		3.9	UG/KG	1	2/18/2016 16:16
4-METHYL-2-PENTANONE	ND		16	UG/KG	1	2/18/2016 16:16
TOLUENE	ND		3.9	UG/KG	1	2/18/2016 16:16
TRANS-1,3-DICHLOROPROPENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1,2-TRICHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
2-HEXANONE	ND		16	UG/KG	1	2/18/2016 16:16
TETRACHLOROETHENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,3-DICHLOROPROPANE	ND		3.9	UG/KG	1	2/18/2016 16:16
DIBROMOCHLOROMETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2-DIBROMOETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
1-CHLOROHEXANE	ND		3.9	UG/KG	1	2/18/2016 16:16

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-8 (8)
Legal Location:
Collection Date: 2/16/2016 11:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-8
Matrix: SOIL
Percent Moisture: 19.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1,1,2-TETRACHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
ETHYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
M+P-XYLENE	ND		3.9	UG/KG	1	2/18/2016 16:16
O-XYLENE	ND		3.9	UG/KG	1	2/18/2016 16:16
STYRENE	ND		3.9	UG/KG	1	2/18/2016 16:16
BROMOFORM	ND		3.9	UG/KG	1	2/18/2016 16:16
ISOPROPYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2,3-TRICHLOROPROPANE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,1,2,2-TETRACHLOROETHANE	ND		3.9	UG/KG	1	2/18/2016 16:16
BROMOBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
N-PROPYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
2-CHLOROTOLUENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,3,5-TRIMETHYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
4-CHLOROTOLUENE	ND		3.9	UG/KG	1	2/18/2016 16:16
TERT-BUTYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2,4-TRIMETHYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
SEC-BUTYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,3-DICHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
P-ISOPROPYLTOLUENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,4-DICHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
N-BUTYLBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2-DICHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2-DIBROMO-3-CHLOROPROPANE	ND		7.8	UG/KG	1	2/18/2016 16:16
1,2,4-TRICHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
HEXACHLOROBUTADIENE	ND		3.9	UG/KG	1	2/18/2016 16:16
NAPHTHALENE	ND		3.9	UG/KG	1	2/18/2016 16:16
1,2,3-TRICHLOROBENZENE	ND		3.9	UG/KG	1	2/18/2016 16:16
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 16:16
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 16:16
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 16:16
GASOLINE RANGE ORGANICS	ND		390	UG/KG	1	2/18/2016 16:16

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-9 (4)
Legal Location:
Collection Date: 2/16/2016 11:20

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-9
Matrix: SOIL
Percent Moisture: 4.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.1	MG/KG	1	2/18/2016 16:52
MOTOR OIL RANGE ORGANICS	**1.7**	J	**5.1**	**MG/KG**	1	2/18/2016 16:52
Surr: O-TERPHENYL	*86*		*49-114*	*%REC*	1	2/18/2016 16:52
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CHLOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
VINYL CHLORIDE	ND		2.5	UG/KG	1	2/18/2016 16:40
BROMOMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
TRICHLOROFLUOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1-DICHLOROETHENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
ACETONE	**8.8**	J	**10**	**UG/KG**	1	2/18/2016 16:40
IODOMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CARBON DISULFIDE	ND		2.5	UG/KG	1	2/18/2016 16:40
METHYLENE CHLORIDE	ND		2.5	UG/KG	1	2/18/2016 16:40
TRANS-1,2-DICHLOROETHENE	ND		2.5	UG/KG	1	2/18/2016 16:40
METHYL TERTIARY BUTYL ETHER	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1-DICHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
VINYL ACETATE	ND		10	UG/KG	1	2/18/2016 16:40
CIS-1,2-DICHLOROETHENE	ND		2.5	UG/KG	1	2/18/2016 16:40
2-BUTANONE	ND		10	UG/KG	1	2/18/2016 16:40
BROMOCHLOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CHLOROFORM	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1,1-TRICHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
2,2-DICHLOROPROPANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CARBON TETRACHLORIDE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1-DICHLOROPROPENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2-DICHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
BENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
TRICHLOROETHENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2-DICHLOROPROPANE	ND		2.5	UG/KG	1	2/18/2016 16:40
DIBROMOMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
BROMODICHLOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
CIS-1,3-DICHLOROPROPENE	ND		2.5	UG/KG	1	2/18/2016 16:40
4-METHYL-2-PENTANONE	ND		10	UG/KG	1	2/18/2016 16:40
TOLUENE	ND		2.5	UG/KG	1	2/18/2016 16:40
TRANS-1,3-DICHLOROPROPENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1,2-TRICHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
2-HEXANONE	ND		10	UG/KG	1	2/18/2016 16:40
TETRACHLOROETHENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,3-DICHLOROPROPANE	ND		2.5	UG/KG	1	2/18/2016 16:40
DIBROMOCHLOROMETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2-DIBROMOETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
1-CHLOROHEXANE	ND		2.5	UG/KG	1	2/18/2016 16:40

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-9 (4)
Legal Location:
Collection Date: 2/16/2016 11:20

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-9
Matrix: SOIL
Percent Moisture: 4.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1,1,2-TETRACHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
ETHYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
M+P-XYLENE	ND		2.5	UG/KG	1	2/18/2016 16:40
O-XYLENE	ND		2.5	UG/KG	1	2/18/2016 16:40
STYRENE	ND		2.5	UG/KG	1	2/18/2016 16:40
BROMOFORM	ND		2.5	UG/KG	1	2/18/2016 16:40
ISOPROPYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2,3-TRICHLOROPROPANE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,1,2,2-TETRACHLOROETHANE	ND		2.5	UG/KG	1	2/18/2016 16:40
BROMOBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
N-PROPYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
2-CHLOROTOLUENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,3,5-TRIMETHYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
4-CHLOROTOLUENE	ND		2.5	UG/KG	1	2/18/2016 16:40
TERT-BUTYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2,4-TRIMETHYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
SEC-BUTYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,3-DICHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
P-ISOPROPYLTOLUENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,4-DICHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
N-BUTYLBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2-DICHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2-DIBROMO-3-CHLOROPROPANE	ND		5	UG/KG	1	2/18/2016 16:40
1,2,4-TRICHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
HEXACHLOROBUTADIENE	ND		2.5	UG/KG	1	2/18/2016 16:40
NAPHTHALENE	ND		2.5	UG/KG	1	2/18/2016 16:40
1,2,3-TRICHLOROBENZENE	ND		2.5	UG/KG	1	2/18/2016 16:40
Surr: DIBROMOFLUOROMETHANE	*103*		*61-134*	*%REC*	1	2/18/2016 16:40
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 16:40
Surr: 4-BROMOFLUOROBENZENE	*102*		*52-151*	*%REC*	1	2/18/2016 16:40
GASOLINE RANGE ORGANICS	ND		250	UG/KG	1	2/18/2016 16:40

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-9 (8)
Legal Location:
Collection Date: 2/16/2016 11:25

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-10
Matrix: SOIL
Percent Moisture: 14.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.6	MG/KG	1	2/18/2016 19:39
MOTOR OIL RANGE ORGANICS	ND		5.6	MG/KG	1	2/18/2016 19:39
Surr: O-TERPHENYL	*92*		*49-114*	*%REC*	1	2/18/2016 19:39
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
VINYL CHLORIDE	ND		4.5	UG/KG	1	2/18/2016 17:03
BROMOMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
TRICHLOROFLUOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
ACETONE	**8**	J	**18**	**UG/KG**	1	2/18/2016 17:03
IODOMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CARBON DISULFIDE	ND		4.5	UG/KG	1	2/18/2016 17:03
METHYLENE CHLORIDE	ND		4.5	UG/KG	1	2/18/2016 17:03
TRANS-1,2-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 17:03
METHYL TERTIARY BUTYL ETHER	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1-DICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
VINYL ACETATE	ND		18	UG/KG	1	2/18/2016 17:03
CIS-1,2-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 17:03
2-BUTANONE	ND		18	UG/KG	1	2/18/2016 17:03
BROMOCHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CHLOROFORM	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1,1-TRICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
2,2-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CARBON TETRACHLORIDE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2-DICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
BENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
TRICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 17:03
DIBROMOMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
BROMODICHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
CIS-1,3-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 17:03
4-METHYL-2-PENTANONE	ND		18	UG/KG	1	2/18/2016 17:03
TOLUENE	ND		4.5	UG/KG	1	2/18/2016 17:03
TRANS-1,3-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1,2-TRICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
2-HEXANONE	ND		18	UG/KG	1	2/18/2016 17:03
TETRACHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,3-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 17:03
DIBROMOCHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2-DIBROMOETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
1-CHLOROHEXANE	ND		4.5	UG/KG	1	2/18/2016 17:03

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-9 (8)
Legal Location:
Collection Date: 2/16/2016 11:25

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-10
Matrix: SOIL
Percent Moisture: 14.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1,1,2-TETRACHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
ETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
M+P-XYLENE	ND		4.5	UG/KG	1	2/18/2016 17:03
O-XYLENE	ND		4.5	UG/KG	1	2/18/2016 17:03
STYRENE	ND		4.5	UG/KG	1	2/18/2016 17:03
BROMOFORM	ND		4.5	UG/KG	1	2/18/2016 17:03
ISOPROPYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2,3-TRICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,1,2,2-TETRACHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 17:03
BROMOBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
N-PROPYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
2-CHLOROTOLUENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,3,5-TRIMETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
4-CHLOROTOLUENE	ND		4.5	UG/KG	1	2/18/2016 17:03
TERT-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2,4-TRIMETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
SEC-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,3-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
P-ISOPROPYLTOLUENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,4-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
N-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.9	UG/KG	1	2/18/2016 17:03
1,2,4-TRICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
HEXACHLOROBUTADIENE	ND		4.5	UG/KG	1	2/18/2016 17:03
NAPHTHALENE	ND		4.5	UG/KG	1	2/18/2016 17:03
1,2,3-TRICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 17:03
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 17:03
Surr: TOLUENE-D8	*99*		*57-135*	*%REC*	1	2/18/2016 17:03
Surr: 4-BROMOFLUOROBENZENE	*99*		*52-151*	*%REC*	1	2/18/2016 17:03
GASOLINE RANGE ORGANICS	ND		450	UG/KG	1	2/18/2016 17:03

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-10 (5)
Legal Location:
Collection Date: 2/16/2016 11:45

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-11
Matrix: SOIL
Percent Moisture: 18.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**8.1**	D	**6.1**	**MG/KG**	1	2/19/2016 00:05
MOTOR OIL RANGE ORGANICS	**99**	MH	**6.1**	**MG/KG**	1	2/19/2016 00:05
Surr: O-TERPHENYL	*86*		*49-114*	*%REC*	1	2/19/2016 00:05
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CHLOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
VINYL CHLORIDE	ND		5.1	UG/KG	1	2/18/2016 17:27
BROMOMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
TRICHLOROFLUOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1-DICHLOROETHENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
ACETONE	ND		21	UG/KG	1	2/18/2016 17:27
IODOMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CARBON DISULFIDE	ND		5.1	UG/KG	1	2/18/2016 17:27
METHYLENE CHLORIDE	ND		5.1	UG/KG	1	2/18/2016 17:27
TRANS-1,2-DICHLOROETHENE	ND		5.1	UG/KG	1	2/18/2016 17:27
METHYL TERTIARY BUTYL ETHER	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1-DICHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
VINYL ACETATE	ND		21	UG/KG	1	2/18/2016 17:27
CIS-1,2-DICHLOROETHENE	ND		5.1	UG/KG	1	2/18/2016 17:27
2-BUTANONE	ND		21	UG/KG	1	2/18/2016 17:27
BROMOCHLOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CHLOROFORM	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1,1-TRICHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
2,2-DICHLOROPROPANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CARBON TETRACHLORIDE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1-DICHLOROPROPENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2-DICHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
BENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
TRICHLOROETHENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2-DICHLOROPROPANE	ND		5.1	UG/KG	1	2/18/2016 17:27
DIBROMOMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
BROMODICHLOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
CIS-1,3-DICHLOROPROPENE	ND		5.1	UG/KG	1	2/18/2016 17:27
4-METHYL-2-PENTANONE	ND		21	UG/KG	1	2/18/2016 17:27
TOLUENE	ND		5.1	UG/KG	1	2/18/2016 17:27
TRANS-1,3-DICHLOROPROPENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1,2-TRICHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
2-HEXANONE	ND		21	UG/KG	1	2/18/2016 17:27
TETRACHLOROETHENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,3-DICHLOROPROPANE	ND		5.1	UG/KG	1	2/18/2016 17:27
DIBROMOCHLOROMETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2-DIBROMOETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
1-CHLOROHEXANE	ND		5.1	UG/KG	1	2/18/2016 17:27

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-10 (5)
Legal Location:
Collection Date: 2/16/2016 11:45

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-11
Matrix: SOIL
Percent Moisture: 18.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1,1,2-TETRACHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
ETHYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
M+P-XYLENE	ND		5.1	UG/KG	1	2/18/2016 17:27
O-XYLENE	ND		5.1	UG/KG	1	2/18/2016 17:27
STYRENE	ND		5.1	UG/KG	1	2/18/2016 17:27
BROMOFORM	ND		5.1	UG/KG	1	2/18/2016 17:27
ISOPROPYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2,3-TRICHLOROPROPANE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,1,2,2-TETRACHLOROETHANE	ND		5.1	UG/KG	1	2/18/2016 17:27
BROMOBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
N-PROPYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
2-CHLOROTOLUENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,3,5-TRIMETHYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
4-CHLOROTOLUENE	ND		5.1	UG/KG	1	2/18/2016 17:27
TERT-BUTYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2,4-TRIMETHYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
SEC-BUTYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,3-DICHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
P-ISOPROPYLTOLUENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,4-DICHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
N-BUTYLBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2-DICHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2-DIBROMO-3-CHLOROPROPANE	ND		10	UG/KG	1	2/18/2016 17:27
1,2,4-TRICHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
HEXACHLOROBUTADIENE	ND		5.1	UG/KG	1	2/18/2016 17:27
NAPHTHALENE	ND		5.1	UG/KG	1	2/18/2016 17:27
1,2,3-TRICHLOROBENZENE	ND		5.1	UG/KG	1	2/18/2016 17:27
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 17:27
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 17:27
Surr: 4-BROMOFLUOROBENZENE	*99*		*52-151*	*%REC*	1	2/18/2016 17:27
GASOLINE RANGE ORGANICS	ND		510	UG/KG	1	2/18/2016 17:27

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-10 (10)
Legal Location:
Collection Date: 2/16/2016 11:50

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-12
Matrix: SOIL
Percent Moisture: 11.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.5	MG/KG	1	2/18/2016 20:12
MOTOR OIL RANGE ORGANICS	**3.5**	J	**5.5**	**MG/KG**	1	2/18/2016 20:12
Surr: O-TERPHENYL	*89*		*49-114*	*%REC*	1	2/18/2016 20:12
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CHLOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
VINYL CHLORIDE	ND		4.1	UG/KG	1	2/18/2016 17:50
BROMOMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
TRICHLOROFLUOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1-DICHLOROETHENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
ACETONE	**28**		**16**	**UG/KG**	1	2/18/2016 17:50
IODOMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CARBON DISULFIDE	ND		4.1	UG/KG	1	2/18/2016 17:50
METHYLENE CHLORIDE	ND		4.1	UG/KG	1	2/18/2016 17:50
TRANS-1,2-DICHLOROETHENE	ND		4.1	UG/KG	1	2/18/2016 17:50
METHYL TERTIARY BUTYL ETHER	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1-DICHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
VINYL ACETATE	ND		16	UG/KG	1	2/18/2016 17:50
CIS-1,2-DICHLOROETHENE	ND		4.1	UG/KG	1	2/18/2016 17:50
2-BUTANONE	ND		16	UG/KG	1	2/18/2016 17:50
BROMOCHLOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CHLOROFORM	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1,1-TRICHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
2,2-DICHLOROPROPANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CARBON TETRACHLORIDE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1-DICHLOROPROPENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2-DICHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
BENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
TRICHLOROETHENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2-DICHLOROPROPANE	ND		4.1	UG/KG	1	2/18/2016 17:50
DIBROMOMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
BROMODICHLOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
CIS-1,3-DICHLOROPROPENE	ND		4.1	UG/KG	1	2/18/2016 17:50
4-METHYL-2-PENTANONE	ND		16	UG/KG	1	2/18/2016 17:50
TOLUENE	ND		4.1	UG/KG	1	2/18/2016 17:50
TRANS-1,3-DICHLOROPROPENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1,2-TRICHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
2-HEXANONE	ND		16	UG/KG	1	2/18/2016 17:50
TETRACHLOROETHENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,3-DICHLOROPROPANE	ND		4.1	UG/KG	1	2/18/2016 17:50
DIBROMOCHLOROMETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2-DIBROMOETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
1-CHLOROHEXANE	ND		4.1	UG/KG	1	2/18/2016 17:50

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-10 (10)
Legal Location:
Collection Date: 2/16/2016 11:50

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-12
Matrix: SOIL
Percent Moisture: 11.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1,1,2-TETRACHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
ETHYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
M+P-XYLENE	ND		4.1	UG/KG	1	2/18/2016 17:50
O-XYLENE	ND		4.1	UG/KG	1	2/18/2016 17:50
STYRENE	ND		4.1	UG/KG	1	2/18/2016 17:50
BROMOFORM	ND		4.1	UG/KG	1	2/18/2016 17:50
ISOPROPYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2,3-TRICHLOROPROPANE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,1,2,2-TETRACHLOROETHANE	ND		4.1	UG/KG	1	2/18/2016 17:50
BROMOBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
N-PROPYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
2-CHLOROTOLUENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,3,5-TRIMETHYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
4-CHLOROTOLUENE	ND		4.1	UG/KG	1	2/18/2016 17:50
TERT-BUTYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2,4-TRIMETHYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
SEC-BUTYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,3-DICHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
P-ISOPROPYLTOLUENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,4-DICHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
N-BUTYLBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2-DICHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.2	UG/KG	1	2/18/2016 17:50
1,2,4-TRICHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
HEXACHLOROBUTADIENE	ND		4.1	UG/KG	1	2/18/2016 17:50
NAPHTHALENE	ND		4.1	UG/KG	1	2/18/2016 17:50
1,2,3-TRICHLOROBENZENE	ND		4.1	UG/KG	1	2/18/2016 17:50
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 17:50
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 17:50
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 17:50
GASOLINE RANGE ORGANICS	ND		410	UG/KG	1	2/18/2016 17:50

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-4 (4)
Legal Location:
Collection Date: 2/16/2016 12:20

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-13
Matrix: SOIL
Percent Moisture: 7.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**3.9**	J	**5.2**	**MG/KG**	1	2/19/2016 00:38
MOTOR OIL RANGE ORGANICS	**96**	MH	**5.2**	**MG/KG**	1	2/19/2016 00:38
Surr: O-TERPHENYL	*86*		*49-114*	*%REC*	1	2/19/2016 00:38
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
VINYL CHLORIDE	ND		4.5	UG/KG	1	2/18/2016 18:13
BROMOMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
TRICHLOROFLUOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
ACETONE	**17**	J	**18**	**UG/KG**	1	2/18/2016 18:13
IODOMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CARBON DISULFIDE	ND		4.5	UG/KG	1	2/18/2016 18:13
METHYLENE CHLORIDE	ND		4.5	UG/KG	1	2/18/2016 18:13
TRANS-1,2-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 18:13
METHYL TERTIARY BUTYL ETHER	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1-DICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
VINYL ACETATE	ND		18	UG/KG	1	2/18/2016 18:13
CIS-1,2-DICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 18:13
2-BUTANONE	ND		18	UG/KG	1	2/18/2016 18:13
BROMOCHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CHLOROFORM	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1,1-TRICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
2,2-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CARBON TETRACHLORIDE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2-DICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
BENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
TRICHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 18:13
DIBROMOMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
BROMODICHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
CIS-1,3-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 18:13
4-METHYL-2-PENTANONE	ND		18	UG/KG	1	2/18/2016 18:13
TOLUENE	ND		4.5	UG/KG	1	2/18/2016 18:13
TRANS-1,3-DICHLOROPROPENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1,2-TRICHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
2-HEXANONE	ND		18	UG/KG	1	2/18/2016 18:13
TETRACHLOROETHENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,3-DICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 18:13
DIBROMOCHLOROMETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2-DIBROMOETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
1-CHLOROHEXANE	ND		4.5	UG/KG	1	2/18/2016 18:13

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-4 (4)
Legal Location:
Collection Date: 2/16/2016 12:20

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-13
Matrix: SOIL
Percent Moisture: 7.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1,1,2-TETRACHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
ETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
M+P-XYLENE	ND		4.5	UG/KG	1	2/18/2016 18:13
O-XYLENE	ND		4.5	UG/KG	1	2/18/2016 18:13
STYRENE	ND		4.5	UG/KG	1	2/18/2016 18:13
BROMOFORM	ND		4.5	UG/KG	1	2/18/2016 18:13
ISOPROPYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2,3-TRICHLOROPROPANE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,1,2,2-TETRACHLOROETHANE	ND		4.5	UG/KG	1	2/18/2016 18:13
BROMOBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
N-PROPYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
2-CHLOROTOLUENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,3,5-TRIMETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
4-CHLOROTOLUENE	ND		4.5	UG/KG	1	2/18/2016 18:13
TERT-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2,4-TRIMETHYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
SEC-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,3-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
P-ISOPROPYLTOLUENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,4-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
N-BUTYLBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2-DICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2-DIBROMO-3-CHLOROPROPANE	ND		9	UG/KG	1	2/18/2016 18:13
1,2,4-TRICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
HEXACHLOROBUTADIENE	ND		4.5	UG/KG	1	2/18/2016 18:13
NAPHTHALENE	ND		4.5	UG/KG	1	2/18/2016 18:13
1,2,3-TRICHLOROBENZENE	ND		4.5	UG/KG	1	2/18/2016 18:13
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 18:13
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 18:13
Surr: 4-BROMOFLUOROBENZENE	*100*		*52-151*	*%REC*	1	2/18/2016 18:13
GASOLINE RANGE ORGANICS	ND		450	UG/KG	1	2/18/2016 18:13

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-4 (8)
Legal Location:
Collection Date: 2/16/2016 12:25

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-14
Matrix: SOIL
Percent Moisture: 11.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.5	MG/KG	1	2/18/2016 20:45
MOTOR OIL RANGE ORGANICS	ND		5.5	MG/KG	1	2/18/2016 20:45
Surr: O-TERPHENYL	*91*		*49-114*	*%REC*	1	2/18/2016 20:45
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
VINYL CHLORIDE	ND		4.4	UG/KG	1	2/18/2016 18:37
BROMOMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
TRICHLOROFLUOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
ACETONE	**6.2**	J	**18**	**UG/KG**	1	2/18/2016 18:37
IODOMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CARBON DISULFIDE	ND		4.4	UG/KG	1	2/18/2016 18:37
METHYLENE CHLORIDE	ND		4.4	UG/KG	1	2/18/2016 18:37
TRANS-1,2-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 18:37
METHYL TERTIARY BUTYL ETHER	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1-DICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
VINYL ACETATE	ND		18	UG/KG	1	2/18/2016 18:37
CIS-1,2-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 18:37
2-BUTANONE	ND		18	UG/KG	1	2/18/2016 18:37
BROMOCHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CHLOROFORM	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1,1-TRICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
2,2-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CARBON TETRACHLORIDE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2-DICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
BENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
TRICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 18:37
DIBROMOMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
BROMODICHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
CIS-1,3-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 18:37
4-METHYL-2-PENTANONE	ND		18	UG/KG	1	2/18/2016 18:37
TOLUENE	ND		4.4	UG/KG	1	2/18/2016 18:37
TRANS-1,3-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1,2-TRICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
2-HEXANONE	ND		18	UG/KG	1	2/18/2016 18:37
TETRACHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,3-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 18:37
DIBROMOCHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2-DIBROMOETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
1-CHLOROHEXANE	ND		4.4	UG/KG	1	2/18/2016 18:37

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-4 (8)
Legal Location:
Collection Date: 2/16/2016 12:25

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-14
Matrix: SOIL
Percent Moisture: 11.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1,1,2-TETRACHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
ETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
M+P-XYLENE	ND		4.4	UG/KG	1	2/18/2016 18:37
O-XYLENE	ND		4.4	UG/KG	1	2/18/2016 18:37
STYRENE	ND		4.4	UG/KG	1	2/18/2016 18:37
BROMOFORM	ND		4.4	UG/KG	1	2/18/2016 18:37
ISOPROPYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2,3-TRICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,1,2,2-TETRACHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 18:37
BROMOBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
N-PROPYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
2-CHLOROTOLUENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,3,5-TRIMETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
4-CHLOROTOLUENE	ND		4.4	UG/KG	1	2/18/2016 18:37
TERT-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2,4-TRIMETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
SEC-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,3-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
P-ISOPROPYLTOLUENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,4-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
N-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.8	UG/KG	1	2/18/2016 18:37
1,2,4-TRICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
HEXACHLOROBUTADIENE	ND		4.4	UG/KG	1	2/18/2016 18:37
NAPHTHALENE	ND		4.4	UG/KG	1	2/18/2016 18:37
1,2,3-TRICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 18:37
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 18:37
Surr: TOLUENE-D8	*99*		*57-135*	*%REC*	1	2/18/2016 18:37
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 18:37
GASOLINE RANGE ORGANICS	ND		440	UG/KG	1	2/18/2016 18:37

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-3 (5)
Legal Location:
Collection Date: 2/16/2016 13:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-15
Matrix: SOIL
Percent Moisture: 16.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.9	MG/KG	1	2/19/2016 09:52
MOTOR OIL RANGE ORGANICS	ND		5.9	MG/KG	1	2/19/2016 09:52
Surr: O-TERPHENYL	*81*		*49-114*	*%REC*	1	2/19/2016 09:52
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CHLOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
VINYL CHLORIDE	ND		3.8	UG/KG	1	2/18/2016 19:00
BROMOMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
TRICHLOROFLUOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1-DICHLOROETHENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
ACETONE	**5**	J	**15**	**UG/KG**	1	2/18/2016 19:00
IODOMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CARBON DISULFIDE	ND		3.8	UG/KG	1	2/18/2016 19:00
METHYLENE CHLORIDE	ND		3.8	UG/KG	1	2/18/2016 19:00
TRANS-1,2-DICHLOROETHENE	ND		3.8	UG/KG	1	2/18/2016 19:00
METHYL TERTIARY BUTYL ETHER	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1-DICHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
VINYL ACETATE	ND		15	UG/KG	1	2/18/2016 19:00
CIS-1,2-DICHLOROETHENE	ND		3.8	UG/KG	1	2/18/2016 19:00
2-BUTANONE	ND		15	UG/KG	1	2/18/2016 19:00
BROMOCHLOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CHLOROFORM	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1,1-TRICHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
2,2-DICHLOROPROPANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CARBON TETRACHLORIDE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1-DICHLOROPROPENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2-DICHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
BENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
TRICHLOROETHENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2-DICHLOROPROPANE	ND		3.8	UG/KG	1	2/18/2016 19:00
DIBROMOMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
BROMODICHLOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
CIS-1,3-DICHLOROPROPENE	ND		3.8	UG/KG	1	2/18/2016 19:00
4-METHYL-2-PENTANONE	ND		15	UG/KG	1	2/18/2016 19:00
TOLUENE	ND		3.8	UG/KG	1	2/18/2016 19:00
TRANS-1,3-DICHLOROPROPENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1,2-TRICHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
2-HEXANONE	ND		15	UG/KG	1	2/18/2016 19:00
TETRACHLOROETHENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,3-DICHLOROPROPANE	ND		3.8	UG/KG	1	2/18/2016 19:00
DIBROMOCHLOROMETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2-DIBROMOETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
1-CHLOROHEXANE	ND		3.8	UG/KG	1	2/18/2016 19:00

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-3 (5)
Legal Location:
Collection Date: 2/16/2016 13:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-15
Matrix: SOIL
Percent Moisture: 16.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1,1,2-TETRACHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
ETHYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
M+P-XYLENE	ND		3.8	UG/KG	1	2/18/2016 19:00
O-XYLENE	ND		3.8	UG/KG	1	2/18/2016 19:00
STYRENE	ND		3.8	UG/KG	1	2/18/2016 19:00
BROMOFORM	ND		3.8	UG/KG	1	2/18/2016 19:00
ISOPROPYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2,3-TRICHLOROPROPANE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,1,2,2-TETRACHLOROETHANE	ND		3.8	UG/KG	1	2/18/2016 19:00
BROMOBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
N-PROPYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
2-CHLOROTOLUENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,3,5-TRIMETHYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
4-CHLOROTOLUENE	ND		3.8	UG/KG	1	2/18/2016 19:00
TERT-BUTYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2,4-TRIMETHYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
SEC-BUTYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,3-DICHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
P-ISOPROPYLTOLUENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,4-DICHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
N-BUTYLBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2-DICHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2-DIBROMO-3-CHLOROPROPANE	ND		7.6	UG/KG	1	2/18/2016 19:00
1,2,4-TRICHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
HEXACHLOROBUTADIENE	ND		3.8	UG/KG	1	2/18/2016 19:00
NAPHTHALENE	ND		3.8	UG/KG	1	2/18/2016 19:00
1,2,3-TRICHLOROBENZENE	ND		3.8	UG/KG	1	2/18/2016 19:00
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 19:00
Surr: TOLUENE-D8	*100*		*57-135*	*%REC*	1	2/18/2016 19:00
Surr: 4-BROMOFLUOROBENZENE	*102*		*52-151*	*%REC*	1	2/18/2016 19:00
GASOLINE RANGE ORGANICS	ND		380	UG/KG	1	2/18/2016 19:00

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-3 (10)
Legal Location:
Collection Date: 2/16/2016 13:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-16
Matrix: SOIL
Percent Moisture: 15.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.8	MG/KG	1	2/19/2016 09:21
MOTOR OIL RANGE ORGANICS	**1.9**	J	**5.8**	**MG/KG**	1	2/19/2016 09:21
Surr: O-TERPHENYL	*79*		*49-114*	*%REC*	1	2/19/2016 09:21
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
VINYL CHLORIDE	ND		4.4	UG/KG	1	2/18/2016 19:24
BROMOMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
TRICHLOROFLUOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
ACETONE	ND		18	UG/KG	1	2/18/2016 19:24
IODOMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CARBON DISULFIDE	ND		4.4	UG/KG	1	2/18/2016 19:24
METHYLENE CHLORIDE	ND		4.4	UG/KG	1	2/18/2016 19:24
TRANS-1,2-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 19:24
METHYL TERTIARY BUTYL ETHER	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1-DICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
VINYL ACETATE	ND		18	UG/KG	1	2/18/2016 19:24
CIS-1,2-DICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 19:24
2-BUTANONE	ND		18	UG/KG	1	2/18/2016 19:24
BROMOCHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CHLOROFORM	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1,1-TRICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
2,2-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CARBON TETRACHLORIDE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2-DICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
BENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
TRICHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 19:24
DIBROMOMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
BROMODICHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
CIS-1,3-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 19:24
4-METHYL-2-PENTANONE	ND		18	UG/KG	1	2/18/2016 19:24
TOLUENE	ND		4.4	UG/KG	1	2/18/2016 19:24
TRANS-1,3-DICHLOROPROPENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1,2-TRICHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
2-HEXANONE	ND		18	UG/KG	1	2/18/2016 19:24
TETRACHLOROETHENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,3-DICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 19:24
DIBROMOCHLOROMETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2-DIBROMOETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
1-CHLOROHEXANE	ND		4.4	UG/KG	1	2/18/2016 19:24

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-3 (10)
Legal Location:
Collection Date: 2/16/2016 13:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-16
Matrix: SOIL
Percent Moisture: 15.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1,1,2-TETRACHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
ETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
M+P-XYLENE	ND		4.4	UG/KG	1	2/18/2016 19:24
O-XYLENE	ND		4.4	UG/KG	1	2/18/2016 19:24
STYRENE	ND		4.4	UG/KG	1	2/18/2016 19:24
BROMOFORM	ND		4.4	UG/KG	1	2/18/2016 19:24
ISOPROPYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2,3-TRICHLOROPROPANE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,1,2,2-TETRACHLOROETHANE	ND		4.4	UG/KG	1	2/18/2016 19:24
BROMOBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
N-PROPYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
2-CHLOROTOLUENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,3,5-TRIMETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
4-CHLOROTOLUENE	ND		4.4	UG/KG	1	2/18/2016 19:24
TERT-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2,4-TRIMETHYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
SEC-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,3-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
P-ISOPROPYLTOLUENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,4-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
N-BUTYLBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2-DICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2-DIBROMO-3-CHLOROPROPANE	ND		8.8	UG/KG	1	2/18/2016 19:24
1,2,4-TRICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
HEXACHLOROBUTADIENE	ND		4.4	UG/KG	1	2/18/2016 19:24
NAPHTHALENE	ND		4.4	UG/KG	1	2/18/2016 19:24
1,2,3-TRICHLOROBENZENE	ND		4.4	UG/KG	1	2/18/2016 19:24
Surr: DIBROMOFLUOROMETHANE	*101*		*61-134*	*%REC*	1	2/18/2016 19:24
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 19:24
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 19:24
GASOLINE RANGE ORGANICS	ND		440	UG/KG	1	2/18/2016 19:24

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-2 (6)
Legal Location:
Collection Date: 2/16/2016 13:30

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-17
Matrix: SOIL
Percent Moisture: 1.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		5.1	MG/KG	1	2/19/2016 08:50
MOTOR OIL RANGE ORGANICS	ND		5.1	MG/KG	1	2/19/2016 08:50
Surr: O-TERPHENYL	*75*		*49-114*	*%REC*	1	2/19/2016 08:50
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CHLOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
VINYL CHLORIDE	ND		2.9	UG/KG	1	2/18/2016 19:47
BROMOMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
TRICHLOROFLUOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1-DICHLOROETHENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
ACETONE	**8**	J	**12**	**UG/KG**	1	2/18/2016 19:47
IODOMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CARBON DISULFIDE	ND		2.9	UG/KG	1	2/18/2016 19:47
METHYLENE CHLORIDE	ND		2.9	UG/KG	1	2/18/2016 19:47
TRANS-1,2-DICHLOROETHENE	ND		2.9	UG/KG	1	2/18/2016 19:47
METHYL TERTIARY BUTYL ETHER	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1-DICHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
VINYL ACETATE	ND		12	UG/KG	1	2/18/2016 19:47
CIS-1,2-DICHLOROETHENE	ND		2.9	UG/KG	1	2/18/2016 19:47
2-BUTANONE	ND		12	UG/KG	1	2/18/2016 19:47
BROMOCHLOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CHLOROFORM	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1,1-TRICHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
2,2-DICHLOROPROPANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CARBON TETRACHLORIDE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1-DICHLOROPROPENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2-DICHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
BENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
TRICHLOROETHENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2-DICHLOROPROPANE	ND		2.9	UG/KG	1	2/18/2016 19:47
DIBROMOMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
BROMODICHLOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
CIS-1,3-DICHLOROPROPENE	ND		2.9	UG/KG	1	2/18/2016 19:47
4-METHYL-2-PENTANONE	ND		12	UG/KG	1	2/18/2016 19:47
TOLUENE	ND		2.9	UG/KG	1	2/18/2016 19:47
TRANS-1,3-DICHLOROPROPENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1,2-TRICHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
2-HEXANONE	ND		12	UG/KG	1	2/18/2016 19:47
TETRACHLOROETHENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,3-DICHLOROPROPANE	ND		2.9	UG/KG	1	2/18/2016 19:47
DIBROMOCHLOROMETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2-DIBROMOETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
1-CHLOROHEXANE	ND		2.9	UG/KG	1	2/18/2016 19:47

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-2 (6)
Legal Location:
Collection Date: 2/16/2016 13:30

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-17
Matrix: SOIL
Percent Moisture: 1.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1,1,2-TETRACHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
ETHYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
M+P-XYLENE	ND		2.9	UG/KG	1	2/18/2016 19:47
O-XYLENE	ND		2.9	UG/KG	1	2/18/2016 19:47
STYRENE	ND		2.9	UG/KG	1	2/18/2016 19:47
BROMOFORM	ND		2.9	UG/KG	1	2/18/2016 19:47
ISOPROPYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2,3-TRICHLOROPROPANE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,1,2,2-TETRACHLOROETHANE	ND		2.9	UG/KG	1	2/18/2016 19:47
BROMOBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
N-PROPYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
2-CHLOROTOLUENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,3,5-TRIMETHYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
4-CHLOROTOLUENE	ND		2.9	UG/KG	1	2/18/2016 19:47
TERT-BUTYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2,4-TRIMETHYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
SEC-BUTYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,3-DICHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
P-ISOPROPYLTOLUENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,4-DICHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
N-BUTYLBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2-DICHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2-DIBROMO-3-CHLOROPROPANE	ND		5.8	UG/KG	1	2/18/2016 19:47
1,2,4-TRICHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
HEXACHLOROBUTADIENE	ND		2.9	UG/KG	1	2/18/2016 19:47
NAPHTHALENE	ND		2.9	UG/KG	1	2/18/2016 19:47
1,2,3-TRICHLOROBENZENE	ND		2.9	UG/KG	1	2/18/2016 19:47
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 19:47
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 19:47
Surr: 4-BROMOFLUOROBENZENE	*102*		*52-151*	*%REC*	1	2/18/2016 19:47
GASOLINE RANGE ORGANICS	ND		290	UG/KG	1	2/18/2016 19:47

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-2 (12)
Legal Location:
Collection Date: 2/16/2016 13:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-18
Matrix: SOIL
Percent Moisture: 4.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	**26**	D	**5.2**	**MG/KG**	1	2/19/2016 10:23
MOTOR OIL RANGE ORGANICS	**15**	D	**5.2**	**MG/KG**	1	2/19/2016 10:23
Surr: O-TERPHENYL	*78*		*49-114*	*%REC*	1	2/19/2016 10:23
GC/MS Volatiles			**SW8260**	Prep Date: **2/19/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CHLOROMETHANE	**5.7**	J	**8.8**	**UG/KG**	1	2/19/2016 13:04
VINYL CHLORIDE	ND		8.8	UG/KG	1	2/19/2016 13:04
BROMOMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
TRICHLOROFLUOROMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1-DICHLOROETHENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
ACETONE	ND		35	UG/KG	1	2/19/2016 13:04
IODOMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CARBON DISULFIDE	ND		8.8	UG/KG	1	2/19/2016 13:04
METHYLENE CHLORIDE	ND		8.8	UG/KG	1	2/19/2016 13:04
TRANS-1,2-DICHLOROETHENE	ND		8.8	UG/KG	1	2/19/2016 13:04
METHYL TERTIARY BUTYL ETHER	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1-DICHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
VINYL ACETATE	ND		35	UG/KG	1	2/19/2016 13:04
CIS-1,2-DICHLOROETHENE	ND		8.8	UG/KG	1	2/19/2016 13:04
2-BUTANONE	ND		35	UG/KG	1	2/19/2016 13:04
BROMOCHLOROMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CHLOROFORM	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1,1-TRICHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
2,2-DICHLOROPROPANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CARBON TETRACHLORIDE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1-DICHLOROPROPENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2-DICHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
BENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
TRICHLOROETHENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2-DICHLOROPROPANE	ND		8.8	UG/KG	1	2/19/2016 13:04
DIBROMOMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
BROMODICHLOROMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
CIS-1,3-DICHLOROPROPENE	ND		8.8	UG/KG	1	2/19/2016 13:04
4-METHYL-2-PENTANONE	ND		35	UG/KG	1	2/19/2016 13:04
TOLUENE	ND		8.8	UG/KG	1	2/19/2016 13:04
TRANS-1,3-DICHLOROPROPENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1,2-TRICHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
2-HEXANONE	ND		35	UG/KG	1	2/19/2016 13:04
TETRACHLOROETHENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,3-DICHLOROPROPANE	ND		8.8	UG/KG	1	2/19/2016 13:04
DIBROMOCHLOROMETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2-DIBROMOETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
1-CHLOROHEXANE	ND		8.8	UG/KG	1	2/19/2016 13:04

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-2 (12)
Legal Location:
Collection Date: 2/16/2016 13:35

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-18
Matrix: SOIL
Percent Moisture: 4.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1,1,2-TETRACHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
ETHYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
M+P-XYLENE	ND		8.8	UG/KG	1	2/19/2016 13:04
O-XYLENE	ND		8.8	UG/KG	1	2/19/2016 13:04
STYRENE	ND		8.8	UG/KG	1	2/19/2016 13:04
BROMOFORM	ND		8.8	UG/KG	1	2/19/2016 13:04
ISOPROPYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2,3-TRICHLOROPROPANE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,1,2,2-TETRACHLOROETHANE	ND		8.8	UG/KG	1	2/19/2016 13:04
BROMOBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
N-PROPYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
2-CHLOROTOLUENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,3,5-TRIMETHYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
4-CHLOROTOLUENE	ND		8.8	UG/KG	1	2/19/2016 13:04
TERT-BUTYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2,4-TRIMETHYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
SEC-BUTYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,3-DICHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
P-ISOPROPYLTOLUENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,4-DICHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
N-BUTYLBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2-DICHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2-DIBROMO-3-CHLOROPROPANE	ND		18	UG/KG	1	2/19/2016 13:04
1,2,4-TRICHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
HEXACHLOROBUTADIENE	ND		8.8	UG/KG	1	2/19/2016 13:04
NAPHTHALENE	ND		8.8	UG/KG	1	2/19/2016 13:04
1,2,3-TRICHLOROBENZENE	ND		8.8	UG/KG	1	2/19/2016 13:04
Surr: DIBROMOFLUOROMETHANE	*97*		*61-134*	*%REC*	1	2/19/2016 13:04
Surr: TOLUENE-D8	*104*		*57-135*	*%REC*	1	2/19/2016 13:04
Surr: 4-BROMOFLUOROBENZENE	*100*		*52-151*	*%REC*	1	2/19/2016 13:04
GASOLINE RANGE ORGANICS	ND		880	UG/KG	1	2/19/2016 13:04

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-1 (4)
Legal Location:
Collection Date: 2/16/2016 14:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-19
Matrix: SOIL
Percent Moisture: 21.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M_MO**	Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		6.3	MG/KG	1	2/19/2016 10:53
MOTOR OIL RANGE ORGANICS	**2**	J	**6.3**	**MG/KG**	1	2/19/2016 10:53
Surr: O-TERPHENYL	*74*		*49-114*	*%REC*	1	2/19/2016 10:53
GC/MS Volatiles			**SW8260**	Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CHLOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
VINYL CHLORIDE	ND		4.9	UG/KG	1	2/18/2016 20:34
BROMOMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
TRICHLOROFLUOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1-DICHLOROETHENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
ACETONE	ND		20	UG/KG	1	2/18/2016 20:34
IODOMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CARBON DISULFIDE	ND		4.9	UG/KG	1	2/18/2016 20:34
METHYLENE CHLORIDE	ND		4.9	UG/KG	1	2/18/2016 20:34
TRANS-1,2-DICHLOROETHENE	ND		4.9	UG/KG	1	2/18/2016 20:34
METHYL TERTIARY BUTYL ETHER	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1-DICHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
VINYL ACETATE	ND		20	UG/KG	1	2/18/2016 20:34
CIS-1,2-DICHLOROETHENE	ND		4.9	UG/KG	1	2/18/2016 20:34
2-BUTANONE	ND		20	UG/KG	1	2/18/2016 20:34
BROMOCHLOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CHLOROFORM	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1,1-TRICHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
2,2-DICHLOROPROPANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CARBON TETRACHLORIDE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1-DICHLOROPROPENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2-DICHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
BENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
TRICHLOROETHENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2-DICHLOROPROPANE	ND		4.9	UG/KG	1	2/18/2016 20:34
DIBROMOMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
BROMODICHLOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
CIS-1,3-DICHLOROPROPENE	ND		4.9	UG/KG	1	2/18/2016 20:34
4-METHYL-2-PENTANONE	ND		20	UG/KG	1	2/18/2016 20:34
TOLUENE	ND		4.9	UG/KG	1	2/18/2016 20:34
TRANS-1,3-DICHLOROPROPENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1,2-TRICHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
2-HEXANONE	ND		20	UG/KG	1	2/18/2016 20:34
TETRACHLOROETHENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,3-DICHLOROPROPANE	ND		4.9	UG/KG	1	2/18/2016 20:34
DIBROMOCHLOROMETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2-DIBROMOETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
1-CHLOROHEXANE	ND		4.9	UG/KG	1	2/18/2016 20:34

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-1 (4)
Legal Location:
Collection Date: 2/16/2016 14:00

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-19
Matrix: SOIL
Percent Moisture: 21.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1,1,2-TETRACHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
ETHYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
M+P-XYLENE	ND		4.9	UG/KG	1	2/18/2016 20:34
O-XYLENE	ND		4.9	UG/KG	1	2/18/2016 20:34
STYRENE	ND		4.9	UG/KG	1	2/18/2016 20:34
BROMOFORM	ND		4.9	UG/KG	1	2/18/2016 20:34
ISOPROPYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2,3-TRICHLOROPROPANE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,1,2,2-TETRACHLOROETHANE	ND		4.9	UG/KG	1	2/18/2016 20:34
BROMOBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
N-PROPYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
2-CHLOROTOLUENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,3,5-TRIMETHYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
4-CHLOROTOLUENE	ND		4.9	UG/KG	1	2/18/2016 20:34
TERT-BUTYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2,4-TRIMETHYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
SEC-BUTYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,3-DICHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
P-ISOPROPYLTOLUENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,4-DICHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
N-BUTYLBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2-DICHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2-DIBROMO-3-CHLOROPROPANE	ND		9.8	UG/KG	1	2/18/2016 20:34
1,2,4-TRICHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
HEXACHLOROBUTADIENE	ND		4.9	UG/KG	1	2/18/2016 20:34
NAPHTHALENE	ND		4.9	UG/KG	1	2/18/2016 20:34
1,2,3-TRICHLOROBENZENE	ND		4.9	UG/KG	1	2/18/2016 20:34
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	2/18/2016 20:34
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	2/18/2016 20:34
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 20:34
GASOLINE RANGE ORGANICS	ND		490	UG/KG	1	2/18/2016 20:34

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-1 (8)
Legal Location:
Collection Date: 2/16/2016 14:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-20
Matrix: SOIL
Percent Moisture: 22.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics		**SW8015M_MO**		Prep Date: **2/16/2016**		PrepBy: **JFN**
DIESEL RANGE ORGANICS	ND		6.4	MG/KG	1	2/19/2016 11:24
MOTOR OIL RANGE ORGANICS	ND		6.4	MG/KG	1	2/19/2016 11:24
Surr: O-TERPHENYL	*76*		*49-114*	*%REC*	1	2/19/2016 11:24
GC/MS Volatiles		**SW8260**		Prep Date: **2/18/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CHLOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
VINYL CHLORIDE	ND		5.7	UG/KG	1	2/18/2016 20:58
BROMOMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
TRICHLOROFLUOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1-DICHLOROETHENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
ACETONE	ND		23	UG/KG	1	2/18/2016 20:58
IODOMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CARBON DISULFIDE	ND		5.7	UG/KG	1	2/18/2016 20:58
METHYLENE CHLORIDE	ND		5.7	UG/KG	1	2/18/2016 20:58
TRANS-1,2-DICHLOROETHENE	ND		5.7	UG/KG	1	2/18/2016 20:58
METHYL TERTIARY BUTYL ETHER	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1-DICHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
VINYL ACETATE	ND		23	UG/KG	1	2/18/2016 20:58
CIS-1,2-DICHLOROETHENE	ND		5.7	UG/KG	1	2/18/2016 20:58
2-BUTANONE	ND		23	UG/KG	1	2/18/2016 20:58
BROMOCHLOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CHLOROFORM	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1,1-TRICHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
2,2-DICHLOROPROPANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CARBON TETRACHLORIDE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1-DICHLOROPROPENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2-DICHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
BENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
TRICHLOROETHENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2-DICHLOROPROPANE	ND		5.7	UG/KG	1	2/18/2016 20:58
DIBROMOMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
BROMODICHLOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
CIS-1,3-DICHLOROPROPENE	ND		5.7	UG/KG	1	2/18/2016 20:58
4-METHYL-2-PENTANONE	ND		23	UG/KG	1	2/18/2016 20:58
TOLUENE	ND		5.7	UG/KG	1	2/18/2016 20:58
TRANS-1,3-DICHLOROPROPENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1,2-TRICHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
2-HEXANONE	ND		23	UG/KG	1	2/18/2016 20:58
TETRACHLOROETHENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,3-DICHLOROPROPANE	ND		5.7	UG/KG	1	2/18/2016 20:58
DIBROMOCHLOROMETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2-DIBROMOETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
1-CHLOROHEXANE	ND		5.7	UG/KG	1	2/18/2016 20:58

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: SB-1 (8)
Legal Location:
Collection Date: 2/16/2016 14:05

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-20
Matrix: SOIL
Percent Moisture: 22.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1,1,2-TETRACHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
ETHYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
M+P-XYLENE	ND		5.7	UG/KG	1	2/18/2016 20:58
O-XYLENE	ND		5.7	UG/KG	1	2/18/2016 20:58
STYRENE	ND		5.7	UG/KG	1	2/18/2016 20:58
BROMOFORM	ND		5.7	UG/KG	1	2/18/2016 20:58
ISOPROPYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2,3-TRICHLOROPROPANE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,1,2,2-TETRACHLOROETHANE	ND		5.7	UG/KG	1	2/18/2016 20:58
BROMOBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
N-PROPYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
2-CHLOROTOLUENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,3,5-TRIMETHYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
4-CHLOROTOLUENE	ND		5.7	UG/KG	1	2/18/2016 20:58
TERT-BUTYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2,4-TRIMETHYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
SEC-BUTYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,3-DICHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
P-ISOPROPYLTOLUENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,4-DICHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
N-BUTYLBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2-DICHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2-DIBROMO-3-CHLOROPROPANE	ND		11	UG/KG	1	2/18/2016 20:58
1,2,4-TRICHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
HEXACHLOROBUTADIENE	ND		5.7	UG/KG	1	2/18/2016 20:58
NAPHTHALENE	ND		5.7	UG/KG	1	2/18/2016 20:58
1,2,3-TRICHLOROBENZENE	ND		5.7	UG/KG	1	2/18/2016 20:58
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	2/18/2016 20:58
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	2/18/2016 20:58
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	2/18/2016 20:58
GASOLINE RANGE ORGANICS	ND		570	UG/KG	1	2/18/2016 20:58

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: TRIP BLANK
Legal Location:
Collection Date: 2/16/2016

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-21
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles		**SW8260_25**		Prep Date: **2/19/2016**		PrepBy: **JXK**
DICHLORODIFLUOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
CHLOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
VINYL CHLORIDE	ND		1	UG/L	1	2/19/2016 13:34
BROMOMETHANE	ND		1	UG/L	1	2/19/2016 13:34
CHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
TRICHLOROFLUOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
1,1-DICHLOROETHENE	ND		1	UG/L	1	2/19/2016 13:34
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
ACETONE	ND		10	UG/L	1	2/19/2016 13:34
IODOMETHANE	ND		1	UG/L	1	2/19/2016 13:34
CARBON DISULFIDE	ND		1	UG/L	1	2/19/2016 13:34
METHYLENE CHLORIDE	ND		1	UG/L	1	2/19/2016 13:34
TRANS-1,2-DICHLOROETHENE	ND		1	UG/L	1	2/19/2016 13:34
METHYL TERTIARY BUTYL ETHER	ND		1	UG/L	1	2/19/2016 13:34
1,1-DICHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
VINYL ACETATE	ND		2	UG/L	1	2/19/2016 13:34
CIS-1,2-DICHLOROETHENE	ND		1	UG/L	1	2/19/2016 13:34
2-BUTANONE	ND		10	UG/L	1	2/19/2016 13:34
BROMOCHLOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
CHLOROFORM	ND		1	UG/L	1	2/19/2016 13:34
1,1,1-TRICHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
2,2-DICHLOROPROPANE	ND		1	UG/L	1	2/19/2016 13:34
CARBON TETRACHLORIDE	ND		1	UG/L	1	2/19/2016 13:34
1,1-DICHLOROPROPENE	ND		1	UG/L	1	2/19/2016 13:34
1,2-DICHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
BENZENE	ND		1	UG/L	1	2/19/2016 13:34
TRICHLOROETHENE	ND		1	UG/L	1	2/19/2016 13:34
1,2-DICHLOROPROPANE	ND		1	UG/L	1	2/19/2016 13:34
DIBROMOMETHANE	ND		1	UG/L	1	2/19/2016 13:34
BROMODICHLOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
CIS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	2/19/2016 13:34
4-METHYL-2-PENTANONE	ND		10	UG/L	1	2/19/2016 13:34
TOLUENE	ND		1	UG/L	1	2/19/2016 13:34
TRANS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	2/19/2016 13:34
1,1,2-TRICHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
2-HEXANONE	ND		10	UG/L	1	2/19/2016 13:34
TETRACHLOROETHENE	ND		1	UG/L	1	2/19/2016 13:34
1,3-DICHLOROPROPANE	ND		1	UG/L	1	2/19/2016 13:34
DIBROMOCHLOROMETHANE	ND		1	UG/L	1	2/19/2016 13:34
1,2-DIBROMOETHANE	ND		1	UG/L	1	2/19/2016 13:34
1-CHLOROHEXANE	ND		1	UG/L	1	2/19/2016 13:34
CHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,1,1,2-TETRACHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
ETHYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
M+P-XYLENE	ND		1	UG/L	1	2/19/2016 13:34
O-XYLENE	ND		1	UG/L	1	2/19/2016 13:34

Client: Braun Intertec
Project: B1601155 DOWL
Sample ID: TRIP BLANK
Legal Location:
Collection Date: 2/16/2016

Date: *19-Feb-16*
Work Order: 1602229
Lab ID: 1602229-21
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
STYRENE	ND		1	UG/L	1	2/19/2016 13:34
BROMOFORM	ND		1	UG/L	1	2/19/2016 13:34
ISOPROPYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,2,3-TRICHLOROPROPANE	ND		1	UG/L	1	2/19/2016 13:34
1,1,2,2-TETRACHLOROETHANE	ND		1	UG/L	1	2/19/2016 13:34
BROMOBENZENE	ND		1	UG/L	1	2/19/2016 13:34
N-PROPYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
2-CHLOROTOLUENE	ND		1	UG/L	1	2/19/2016 13:34
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
4-CHLOROTOLUENE	ND		1	UG/L	1	2/19/2016 13:34
TERT-BUTYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
SEC-BUTYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,3-DICHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
P-ISOPROPYLTOLUENE	ND		1	UG/L	1	2/19/2016 13:34
1,4-DICHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
N-BUTYLBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,2-DICHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
1,2-DIBROMO-3-CHLOROPROPANE	ND		2	UG/L	1	2/19/2016 13:34
1,2,4-TRICHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
HEXACHLOROBUTADIENE	ND		1	UG/L	1	2/19/2016 13:34
NAPHTHALENE	ND		1	UG/L	1	2/19/2016 13:34
1,2,3-TRICHLOROBENZENE	ND		1	UG/L	1	2/19/2016 13:34
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	2/19/2016 13:34
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	2/19/2016 13:34
Surr: 4-BROMOFLUOROBENZENE	*109*		*85-115*	*%REC*	1	2/19/2016 13:34
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	2/19/2016 13:34

Client:	Braun Intertec	**Date:**	*19-Feb-16*
Project:	B1601155 DOWL	**Work Order:**	1602229
Sample ID:	TRIP BLANK	**Lab ID:**	1602229-21
Legal Location:		**Matrix:**	WATER
Collection Date:	2/16/2016	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
W - DER is greater than Warning Limit of 1.42
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit
M - Requested MDC not met.
LT - Result is less than requested MDC but greater than achieved MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
L - LCS Recovery below lower control limit.
H - LCS Recovery above upper control limit.
P - LCS, Matrix Spike Recovery within control limits.
N - Matrix Spike Recovery outside control limits
NC - Not Calculated for duplicate results less than 5 times MDC
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
U or ND - Indicates that the compound was analyzed for but not detected.
E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
M - Duplicate injection precision was not met.
N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
* - Duplicate analysis (relative percent difference) not within control limits.
S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
E - Analyte concentration exceeds the upper level of the calibration range.
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
A - A tentatively identified compound is a suspected aldol-condensation product.
X - The analyte was diluted below an accurate quantitation level.
* - The spike recovery is equal to or outside the control criteria used.
+ - The relative percent difference (RPD) equals or exceeds the control criteria.
G - A pattern resembling gasoline was detected in this sample.
D - A pattern resembling diesel was detected in this sample.
M - A pattern resembling motor oil was detected in this sample.
C - A pattern resembling crude oil was detected in this sample.
4 - A pattern resembling JP-4 was detected in this sample.
5 - A pattern resembling JP-5 was detected in this sample.
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

QC BATCH REPORT

Batch ID: **hc160218-100-1** Instrument ID **FUELS-1** Method: **SW8015M_MO**

DUP Sample ID: **1602229-6** Units: **MG/KG** Analysis Date: **2/18/2016 21:18**

Client ID: **SB-7 (8)** Run ID: **HC160218-8A** Prep Date: **2/16/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DIESEL RANGE ORGANICS	47.7	6.51						75	44	20	+LD
MOTOR OIL RANGE ORGANICS	34.3	6.51						48	33	20	+MH
Surr: O-TERPHENYL	7.15		8.13		88	49-114					

MB Sample ID: **hc160218-100** Units: **MG/KG** Analysis Date: **2/18/2016 12:59**

Client ID: Run ID: **HC160218-8A** Prep Date: **2/16/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DIESEL RANGE ORGANICS	ND	5									
MOTOR OIL RANGE ORGANICS	ND	5									
Surr: O-TERPHENYL	5.12		6.25		82	49-114					

MS Sample ID: **1602229-7** Units: **MG/KG** Analysis Date: **2/18/2016 21:51**

Client ID: **SB-8 (4)** Run ID: **HC160218-8A** Prep Date: **2/16/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DIESEL RANGE ORGANICS	184	5.13	192	5.1	96	82-120				20	
Surr: O-TERPHENYL	5.15		6.41		80	49-114					

The following samples were analyzed in this batch:

1602229-5	1602229-6	1602229-7
1602229-8	1602229-9	1602229-10
1602229-11	1602229-12	1602229-13
1602229-14		

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **hc160218-100-1** Instrument ID **FUELS-1** Method: **SW8015M_MO**

LCS Sample ID: **hc160218-100** Units: **MG/KG** Analysis Date: **2/19/2016 09:44**

Client ID: Run ID: **hc160219-8a** Prep Date: **2/16/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DIESEL RANGE ORGANICS	184	5	188		98	82-120				20	
Surr: O-TERPHENYL	4.6		6.25		74	49-114					

LCSD Sample ID: **hc160218-100** Units: **MG/KG** Analysis Date: **2/19/2016 10:18**

Client ID: Run ID: **hc160219-8a** Prep Date: **2/16/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DIESEL RANGE ORGANICS	184	5	188		98	82-120		184	0	20	
Surr: O-TERPHENYL	4.66		6.25		75	49-114			1		

The following samples were analyzed in this batch: 1602229-1 1602229-2 1602229-3

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 11:12**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	38.6	5	40		96	62-129				30	
CHLOROMETHANE	34.3	5	40		86	51-129				30	
VINYL CHLORIDE	37.6	5	40		94	58-126				30	
BROMOMETHANE	40.8	5	40		102	31-159				30	
CHLOROETHANE	39	5	40		98	39-157				30	
TRICHLOROFLUOROMETHANE	40.7	5	40		102	25-186				30	
1,1-DICHLOROETHENE	40.1	5	40		100	79-134				30	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	41	5	40		103	50-150				30	
ACETONE	143	20	160		89	71-135				30	
IODOMETHANE	50.5	5	40		126	50-150				30	
CARBON DISULFIDE	40.6	5	40		101	47-159				30	
METHYLENE CHLORIDE	37	5	40		93	54-141				30	
TRANS-1,2-DICHLOROETHENE	39.5	5	40		99	66-134				30	
METHYL TERTIARY BUTYL ETHER	74.8	5	80		94	77-123				30	
1,1-DICHLOROETHANE	38.6	5	40		96	73-125				30	
VINYL ACETATE	38.6	20	40		97	50-150				30	
CIS-1,2-DICHLOROETHENE	39.7	5	40		99	67-125				30	
2-BUTANONE	145	20	160		91	29-159				30	
BROMOCHLOROMETHANE	41.2	5	40		103	71-127				30	
CHLOROFORM	39	5	40		98	72-124				30	
1,1,1-TRICHLOROETHANE	40.4	5	40		101	68-133				30	
2,2-DICHLOROPROPANE	39.9	5	40		100	67-134				30	
CARBON TETRACHLORIDE	41.5	5	40		104	67-133				30	
1,1-DICHLOROPROPENE	39.8	5	40		100	70-135				30	
1,2-DICHLOROETHANE	36.6	5	40		91	72-137				30	
BENZENE	38.7	5	40		97	73-126				30	
TRICHLOROETHENE	40	5	40		100	79-131				30	
1,2-DICHLOROPROPANE	39.2	5	40		98	71-119				30	
DIBROMOMETHANE	38.8	5	40		97	73-128				30	
BROMODICHLOROMETHANE	38.3	5	40		96	72-128				30	
CIS-1,3-DICHLOROPROPENE	39	5	40		98	72-126				30	
4-METHYL-2-PENTANONE	151	20	160		95	47-147				30	
TOLUENE	39.1	5	40		98	71-127				30	
TRANS-1,3-DICHLOROPROPENE	38.7	5	40		97	65-127				30	
1,1,2-TRICHLOROETHANE	37.4	5	40		93	62-127				30	
2-HEXANONE	152	20	160		95	47-146				30	
TETRACHLOROETHENE	41.3	5	40		103	67-139				30	
1,3-DICHLOROPROPANE	37.7	5	40		94	76-123				30	
DIBROMOCHLOROMETHANE	39.8	5	40		100	66-130				30	
1,2-DIBROMOETHANE	39.2	5	40		98	70-124				30	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 11:12**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	40.5	5	40		101	75-125				30	
CHLOROBENZENE	39.4	5	40		99	75-123				30	
1,1,1,2-TETRACHLOROETHANE	40.6	5	40		101	74-125				30	
ETHYLBENZENE	39.6	5	40		99	74-127				30	
M+P-XYLENE	80.2	5	80		100	79-126				30	
O-XYLENE	39.8	5	40		99	77-125				30	
STYRENE	40.1	5	40		100	74-128				30	
BROMOFORM	40.5	5	40		101	56-137				30	
ISOPROPYLBENZENE	40.5	5	40		101	77-129				30	
1,2,3-TRICHLOROPROPANE	38.5	5	40		96	63-130				30	
1,1,2,2-TETRACHLOROETHANE	36.5	5	40		91	54-131				30	
BROMOBENZENE	39.3	5	40		98	66-121				30	
N-PROPYLBENZENE	40.4	5	40		101	63-135				30	
2-CHLOROTOLUENE	39.2	5	40		98	69-128				30	
1,3,5-TRIMETHYLBENZENE	40.8	5	40		102	65-133				30	
4-CHLOROTOLUENE	40	5	40		100	73-126				30	
TERT-BUTYLBENZENE	40.9	5	40		102	65-132				30	
1,2,4-TRIMETHYLBENZENE	40.3	5	40		101	65-135				30	
SEC-BUTYLBENZENE	41.1	5	40		103	63-132				30	
1,3-DICHLOROBENZENE	39.8	5	40		100	72-124				30	
P-ISOPROPYLTOLUENE	41.3	5	40		103	40-145				30	
1,4-DICHLOROBENZENE	39.5	5	40		99	72-125				30	
N-BUTYLBENZENE	41.5	5	40		104	35-146				30	
1,2-DICHLOROBENZENE	39.9	5	40		100	74-119				30	
1,2-DIBROMO-3-CHLOROPROPANE	35.8	10	40		90	40-135				30	
1,2,4-TRICHLOROBENZENE	42.9	5	40		107	65-131				30	
HEXACHLOROBUTADIENE	42.7	5	40		107	53-142				30	
NAPHTHALENE	42.8	5	40		107	64-141				30	
1,2,3-TRICHLOROBENZENE	43	5	40		107	62-133				30	
Surr: DIBROMOFLUOROMETHANE	49.1		50		98	61-134					
Surr: TOLUENE-D8	50		50		100	57-135					
Surr: 4-BROMOFLUOROBENZENE	50.4		50		101	52-151					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

LCSD Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 11:35**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	35.4	5	40		89	62-129		38.6	9	30	
CHLOROMETHANE	33.3	5	40		83	51-129		34.3	3	30	
VINYL CHLORIDE	35.6	5	40		89	58-126		37.6	6	30	
BROMOMETHANE	39.6	5	40		99	31-159		40.8	3	30	
CHLOROETHANE	36.6	5	40		92	39-157		39	6	30	
TRICHLOROFLUOROMETHANE	36.5	5	40		91	25-186		40.7	11	30	
1,1-DICHLOROETHENE	37.5	5	40		94	79-134		40.1	7	30	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	36.6	5	40		91	50-150		41	11	30	
ACETONE	152	20	160		95	71-135		143	6	30	
IODOMETHANE	55.4	5	40		138	50-150		50.5	9	30	
CARBON DISULFIDE	38.2	5	40		96	47-159		40.6	6	30	
METHYLENE CHLORIDE	36.3	5	40		91	54-141		37	2	30	
TRANS-1,2-DICHLOROETHENE	38.1	5	40		95	66-134		39.5	3	30	
METHYL TERTIARY BUTYL ETHER	77.2	5	80		96	77-123		74.8	3	30	
1,1-DICHLOROETHANE	37.7	5	40		94	73-125		38.6	2	30	
VINYL ACETATE	40.7	20	40		102	50-150		38.6	5	30	
CIS-1,2-DICHLOROETHENE	38.1	5	40		95	67-125		39.7	4	30	
2-BUTANONE	155	20	160		97	29-159		145	7	30	
BROMOCHLOROMETHANE	40.6	5	40		102	71-127		41.2	1	30	
CHLOROFORM	37.6	5	40		94	72-124		39	4	30	
1,1,1-TRICHLOROETHANE	37.2	5	40		93	68-133		40.4	8	30	
2,2-DICHLOROPROPANE	37.1	5	40		93	67-134		39.9	7	30	
CARBON TETRACHLORIDE	37.8	5	40		94	67-133		41.5	9	30	
1,1-DICHLOROPROPENE	37.3	5	40		93	70-135		39.8	7	30	
1,2-DICHLOROETHANE	36.9	5	40		92	72-137		36.6	1	30	
BENZENE	37.5	5	40		94	73-126		38.7	3	30	
TRICHLOROETHENE	38.2	5	40		95	79-131		40	5	30	
1,2-DICHLOROPROPANE	38.4	5	40		96	71-119		39.2	2	30	
DIBROMOMETHANE	39.5	5	40		99	73-128		38.8	2	30	
BROMODICHLOROMETHANE	38.7	5	40		97	72-128		38.3	1	30	
CIS-1,3-DICHLOROPROPENE	38.9	5	40		97	72-126		39	0	30	
4-METHYL-2-PENTANONE	165	20	160		103	47-147		151	9	30	
TOLUENE	37.8	5	40		95	71-127		39.1	3	30	
TRANS-1,3-DICHLOROPROPENE	39.4	5	40		99	65-127		38.7	2	30	
1,1,2-TRICHLOROETHANE	39.2	5	40		98	62-127		37.4	5	30	
2-HEXANONE	167	20	160		105	47-146		152	10	30	
TETRACHLOROETHENE	37.8	5	40		94	67-139		41.3	9	30	
1,3-DICHLOROPROPANE	38.7	5	40		97	76-123		37.7	3	30	
DIBROMOCHLOROMETHANE	40	5	40		100	66-130		39.8	0	30	
1,2-DIBROMOETHANE	40.4	5	40		101	70-124		39.2	3	30	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

LCSD Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 11:35**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	37.4	5	40		93	75-125		40.5	8	30	
CHLOROBENZENE	39.2	5	40		98	75-123		39.4	1	30	
1,1,1,2-TETRACHLOROETHANE	40.4	5	40		101	74-125		40.6	0	30	
ETHYLBENZENE	38.7	5	40		97	74-127		39.6	2	30	
M+P-XYLENE	76.6	5	80		96	79-126		80.2	5	30	
O-XYLENE	39.1	5	40		98	77-125		39.8	2	30	
STYRENE	39.5	5	40		99	74-128		40.1	1	30	
BROMOFORM	41.7	5	40		104	56-137		40.5	3	30	
ISOPROPYLBENZENE	38.7	5	40		97	77-129		40.5	4	30	
1,2,3-TRICHLOROPROPANE	40.3	5	40		101	63-130		38.5	5	30	
1,1,2,2-TETRACHLOROETHANE	38.5	5	40		96	54-131		36.5	5	30	
BROMOBENZENE	40.3	5	40		101	66-121		39.3	3	30	
N-PROPYLBENZENE	38.2	5	40		95	63-135		40.4	6	30	
2-CHLOROTOLUENE	39.2	5	40		98	69-128		39.2	0	30	
1,3,5-TRIMETHYLBENZENE	39.3	5	40		98	65-133		40.8	4	30	
4-CHLOROTOLUENE	39.2	5	40		98	73-126		40	2	30	
TERT-BUTYLBENZENE	38.9	5	40		97	65-132		40.9	5	30	
1,2,4-TRIMETHYLBENZENE	39.5	5	40		99	65-135		40.3	2	30	
SEC-BUTYLBENZENE	38.2	5	40		96	63-132		41.1	7	30	
1,3-DICHLOROBENZENE	39.5	5	40		99	72-124		39.8	1	30	
P-ISOPROPYLTOLUENE	39.2	5	40		98	40-145		41.3	5	30	
1,4-DICHLOROBENZENE	39.3	5	40		98	72-125		39.5	1	30	
N-BUTYLBENZENE	39.1	5	40		98	35-146		41.5	6	30	
1,2-DICHLOROBENZENE	40	5	40		100	74-119		39.9	0	30	
1,2-DIBROMO-3-CHLOROPROPANE	40.6	10	40		102	40-135		35.8	13	30	
1,2,4-TRICHLOROBENZENE	40.3	5	40		101	65-131		42.9	6	30	
HEXACHLOROBUTADIENE	40.2	5	40		100	53-142		42.7	6	30	
NAPHTHALENE	42.7	5	40		107	64-141		42.8	0	30	
1,2,3-TRICHLOROBENZENE	41.7	5	40		104	62-133		43	3	30	
Surr: DIBROMOFLUOROMETHANE	49.7		50		99	61-134			1		
Surr: TOLUENE-D8	49.8		50		100	57-135			0		
Surr: 4-BROMOFLUOROBENZENE	50.5		50		101	52-151			0		

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

MB Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 13:32**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	5									
CHLOROMETHANE	ND	5									
VINYL CHLORIDE	ND	5									
BROMOMETHANE	ND	5									
CHLOROETHANE	ND	5									
TRICHLOROFLUOROMETHANE	ND	5									
1,1-DICHLOROETHENE	ND	5									
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND	5									
ACETONE	ND	20									
IODOMETHANE	ND	5									
CARBON DISULFIDE	ND	5									
METHYLENE CHLORIDE	ND	5									
TRANS-1,2-DICHLOROETHENE	ND	5									
METHYL TERTIARY BUTYL ETHER	ND	5									
1,1-DICHLOROETHANE	ND	5									
VINYL ACETATE	ND	20									
CIS-1,2-DICHLOROETHENE	ND	5									
2-BUTANONE	ND	20									
BROMOCHLOROMETHANE	ND	5									
CHLOROFORM	ND	5									
1,1,1-TRICHLOROETHANE	ND	5									
2,2-DICHLOROPROPANE	ND	5									
CARBON TETRACHLORIDE	ND	5									
1,1-DICHLOROPROPENE	ND	5									
1,2-DICHLOROETHANE	ND	5									
BENZENE	ND	5									
TRICHLOROETHENE	ND	5									
1,2-DICHLOROPROPANE	ND	5									
DIBROMOMETHANE	ND	5									
BROMODICHLOROMETHANE	ND	5									
CIS-1,3-DICHLOROPROPENE	ND	5									
4-METHYL-2-PENTANONE	ND	20									
TOLUENE	ND	5									
TRANS-1,3-DICHLOROPROPENE	ND	5									
1,1,2-TRICHLOROETHANE	ND	5									
2-HEXANONE	ND	20									
TETRACHLOROETHENE	ND	5									
1,3-DICHLOROPROPANE	ND	5									
DIBROMOCHLOROMETHANE	ND	5									
1,2-DIBROMOETHANE	ND	5									

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-1** Instrument ID **HPV1** Method: **SW8260**

MB Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 13:32**

Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	ND	5									
CHLOROBENZENE	ND	5									
1,1,1,2-TETRACHLOROETHANE	ND	5									
ETHYLBENZENE	ND	5									
M+P-XYLENE	ND	5									
O-XYLENE	ND	5									
STYRENE	ND	5									
BROMOFORM	ND	5									
ISOPROPYLBENZENE	ND	5									
1,2,3-TRICHLOROPROPANE	ND	5									
1,1,2,2-TETRACHLOROETHANE	ND	5									
BROMOBENZENE	ND	5									
N-PROPYLBENZENE	ND	5									
2-CHLOROTOLUENE	ND	5									
1,3,5-TRIMETHYLBENZENE	ND	5									
4-CHLOROTOLUENE	ND	5									
TERT-BUTYLBENZENE	ND	5									
1,2,4-TRIMETHYLBENZENE	ND	5									
SEC-BUTYLBENZENE	ND	5									
1,3-DICHLOROBENZENE	ND	5									
P-ISOPROPYLTOLUENE	ND	5									
1,4-DICHLOROBENZENE	ND	5									
N-BUTYLBENZENE	ND	5									
1,2-DICHLOROBENZENE	ND	5									
1,2-DIBROMO-3-CHLOROPROPANE	ND	10									
1,2,4-TRICHLOROBENZENE	ND	5									
HEXACHLOROBUTADIENE	ND	5									
NAPHTHALENE	ND	5									
1,2,3-TRICHLOROBENZENE	ND	5									
Surr: DIBROMOFLUOROMETHANE	49.2		50		98	61-134					
Surr: TOLUENE-D8	49.7		50		99	57-135					
Surr: 4-BROMOFLUOROBENZENE	51		50		102	52-151					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160218-4-2** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160218-8** Units: **UG/KG** Analysis Date: **2/18/2016 12:22**
Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1880	500	2000		94	80-120				20	

LCSD Sample ID: **VL160218-8** Units: **UG/KG** Analysis Date: **2/18/2016 12:45**
Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1890	500	2000		95	80-120		1880	1	20	

MB Sample ID: **VL160218-4** Units: **UG/KG** Analysis Date: **2/18/2016 13:32**
Client ID: Run ID: **VL160218-4A** Prep Date: **2/18/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	500									

The following samples were analyzed in this batch:

1602229-1	1602229-2	1602229-3
1602229-4	1602229-5	1602229-6
1602229-7	1602229-8	1602229-9
1602229-10	1602229-11	1602229-12
1602229-13	1602229-14	1602229-15
1602229-16	1602229-17	1602229-19
1602229-20		

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 10:40**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	9.3	1	10		93	63-125				20	
CHLOROMETHANE	10.2	1	10		102	73-122				20	
VINYL CHLORIDE	10.3	1	10		103	72-123				20	
BROMOMETHANE	8.73	1	10		87	68-123				20	
CHLOROETHANE	10.4	1	10		104	74-124				20	
TRICHLOROFLUOROMETHANE	9.76	1	10		98	74-124				20	
1,1-DICHLOROETHENE	10	1	10		100	77-119				20	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	9.89	1	10		99	79-122				20	
ACETONE	46.2	10	40		116	62-142				30	
IODOMETHANE	7.02	1	10		70	72-126				20	*
CARBON DISULFIDE	10.5	1	10		105	76-121				20	
METHYLENE CHLORIDE	9.47	1	10		95	71-130				20	
TRANS-1,2-DICHLOROETHENE	10.1	1	10		101	82-117				20	
METHYL TERTIARY BUTYL ETHER	20.8	1	20		104	77-119				20	
1,1-DICHLOROETHANE	10.9	1	10		109	83-119				20	
VINYL ACETATE	9.34	2	10		93	76-121				20	
CIS-1,2-DICHLOROETHENE	9.87	1	10		99	83-117				20	
2-BUTANONE	44.1	10	40		110	70-135				30	
BROMOCHLOROMETHANE	10.2	1	10		102	84-129				20	
CHLOROFORM	10.3	1	10		103	82-119				20	
1,1,1-TRICHLOROETHANE	10.3	1	10		103	80-120				20	
2,2-DICHLOROPROPANE	11.3	1	10		113	82-140				20	
CARBON TETRACHLORIDE	10.4	1	10		104	77-122				20	
1,1-DICHLOROPROPENE	10.6	1	10		106	84-118				20	
1,2-DICHLOROETHANE	11.3	1	10		113	74-128				20	
BENZENE	10.2	1	10		102	83-117				20	
TRICHLOROETHENE	10.4	1	10		104	83-117				20	
1,2-DICHLOROPROPANE	10.9	1	10		109	84-120				20	
DIBROMOMETHANE	10	1	10		100	79-122				20	
BROMODICHLOROMETHANE	10.3	1	10		103	76-122				20	
CIS-1,3-DICHLOROPROPENE	10.6	1	10		106	87-126				20	
4-METHYL-2-PENTANONE	45.1	10	40		113	73-125				30	
TOLUENE	9.78	1	10		98	82-113				20	
TRANS-1,3-DICHLOROPROPENE	10.8	1	10		108	81-114				20	
1,1,2-TRICHLOROETHANE	9.76	1	10		98	78-116				20	
2-HEXANONE	44.2	10	40		110	71-124				30	
TETRACHLOROETHENE	9.67	1	10		97	84-117				20	
1,3-DICHLOROPROPANE	10.4	1	10		104	80-115				20	
DIBROMOCHLOROMETHANE	10.2	1	10		102	82-118				20	
1,2-DIBROMOETHANE	9.93	1	10		99	79-114				20	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 10:40**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	9.76	1	10		98	80-117				20	
CHLOROBENZENE	9.78	1	10		98	81-113				20	
1,1,1,2-TETRACHLOROETHANE	10.3	1	10		103	78-113				20	
ETHYLBENZENE	9.91	1	10		99	81-113				20	
M+P-XYLENE	19.8	1	20		99	82-115				20	
O-XYLENE	9.85	1	10		99	81-115				20	
STYRENE	9.84	1	10		98	78-118				20	
BROMOFORM	9.37	1	10		94	70-120				20	
ISOPROPYLBENZENE	9.93	1	10		99	80-113				20	
1,2,3-TRICHLOROPROPANE	11	1	10		110	78-117				20	
1,1,2,2-TETRACHLOROETHANE	10.8	1	10		108	75-121				20	
BROMOBENZENE	10.3	1	10		103	81-114				20	
N-PROPYLBENZENE	10.4	1	10		104	79-116				20	
2-CHLOROTOLUENE	10.6	1	10		106	79-116				20	
1,3,5-TRIMETHYLBENZENE	10.7	1	10		107	78-116				20	
4-CHLOROTOLUENE	10.8	1	10		108	78-115				20	
TERT-BUTYLBENZENE	10.9	1	10		109	76-120				20	
1,2,4-TRIMETHYLBENZENE	10.6	1	10		106	80-117				20	
SEC-BUTYLBENZENE	10.4	1	10		104	78-115				20	
1,3-DICHLOROBENZENE	10.4	1	10		104	79-115				20	
P-ISOPROPYLTOLUENE	10.6	1	10		106	77-116				20	
1,4-DICHLOROBENZENE	10.5	1	10		105	82-114				20	
N-BUTYLBENZENE	10.6	1	10		106	79-117				20	
1,2-DICHLOROBENZENE	10.4	1	10		104	82-114				20	
1,2-DIBROMO-3-CHLOROPROPANE	10.8	2	10		108	73-125				20	
1,2,4-TRICHLOROBENZENE	9.22	1	10		92	75-120				20	
HEXACHLOROBUTADIENE	10.3	1	10		103	71-124				20	
NAPHTHALENE	9.21	1	10		92	71-131				20	
1,2,3-TRICHLOROBENZENE	9.11	1	10		91	70-131				20	
Surr: DIBROMOFLUOROMETHANE	25.3		25		101	84-118					
Surr: TOLUENE-D8	24.2		25		97	85-115					
Surr: 4-BROMOFLUOROBENZENE	25.8		25		103	85-115					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

LCSD Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 11:01**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	8.88	1	10		89	63-125		9.3	5	20	
CHLOROMETHANE	9.85	1	10		99	73-122		10.2	3	20	
VINYL CHLORIDE	9.98	1	10		100	72-123		10.3	3	20	
BROMOMETHANE	8.58	1	10		86	68-123		8.73	2	20	
CHLOROETHANE	10.2	1	10		102	74-124		10.4	3	20	
TRICHLOROFLUOROMETHANE	9.38	1	10		94	74-124		9.76	4	20	
1,1-DICHLOROETHENE	9.8	1	10		98	77-119		10	2	20	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	9.53	1	10		95	79-122		9.89	4	20	
ACETONE	48.6	10	40		121	62-142		46.2	5	30	
IODOMETHANE	6.98	1	10		70	72-126		7.02	1	20	*
CARBON DISULFIDE	9.98	1	10		100	76-121		10.5	5	20	
METHYLENE CHLORIDE	9.33	1	10		93	71-130		9.47	1	20	
TRANS-1,2-DICHLOROETHENE	9.79	1	10		98	82-117		10.1	3	20	
METHYL TERTIARY BUTYL ETHER	21.4	1	20		107	77-119		20.8	2	20	
1,1-DICHLOROETHANE	10.6	1	10		106	83-119		10.9	3	20	
VINYL ACETATE	9.03	2	10		90	76-121		9.34	3	20	
CIS-1,2-DICHLOROETHENE	9.82	1	10		98	83-117		9.87	1	20	
2-BUTANONE	45.3	10	40		113	70-135		44.1	3	30	
BROMOCHLOROMETHANE	10.3	1	10		103	84-129		10.2	0	20	
CHLOROFORM	10.1	1	10		101	82-119		10.3	2	20	
1,1,1-TRICHLOROETHANE	9.85	1	10		99	80-120		10.3	4	20	
2,2-DICHLOROPROPANE	10.8	1	10		108	82-140		11.3	4	20	
CARBON TETRACHLORIDE	9.99	1	10		100	77-122		10.4	4	20	
1,1-DICHLOROPROPENE	10.2	1	10		102	84-118		10.6	4	20	
1,2-DICHLOROETHANE	11.5	1	10		115	74-128		11.3	2	20	
BENZENE	9.87	1	10		99	83-117		10.2	3	20	
TRICHLOROETHENE	10.1	1	10		101	83-117		10.4	3	20	
1,2-DICHLOROPROPANE	10.6	1	10		106	84-120		10.9	3	20	
DIBROMOMETHANE	10	1	10		100	79-122		10	0	20	
BROMODICHLOROMETHANE	10.1	1	10		101	76-122		10.3	2	20	
CIS-1,3-DICHLOROPROPENE	10.6	1	10		106	87-126		10.6	1	20	
4-METHYL-2-PENTANONE	46.8	10	40		117	73-125		45.1	4	30	
TOLUENE	9.61	1	10		96	82-113		9.78	2	20	
TRANS-1,3-DICHLOROPROPENE	10.7	1	10		107	81-114		10.8	1	20	
1,1,2-TRICHLOROETHANE	9.98	1	10		100	78-116		9.76	2	20	
2-HEXANONE	46.4	10	40		116	71-124		44.2	5	30	
TETRACHLOROETHENE	9.33	1	10		93	84-117		9.67	4	20	
1,3-DICHLOROPROPANE	10.4	1	10		104	80-115		10.4	1	20	
DIBROMOCHLOROMETHANE	10.2	1	10		102	82-118		10.2	1	20	
1,2-DIBROMOETHANE	10	1	10		100	79-114		9.93	1	20	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

LCSD Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 11:01**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	9.44	1	10		94	80-117		9.76	3	20	
CHLOROBENZENE	9.5	1	10		95	81-113		9.78	3	20	
1,1,1,2-TETRACHLOROETHANE	10.2	1	10		102	78-113		10.3	2	20	
ETHYLBENZENE	9.66	1	10		97	81-113		9.91	3	20	
M+P-XYLENE	19.5	1	20		97	82-115		19.8	2	20	
O-XYLENE	9.55	1	10		95	81-115		9.85	3	20	
STYRENE	9.58	1	10		96	78-118		9.84	3	20	
BROMOFORM	9.46	1	10		95	70-120		9.37	1	20	
ISOPROPYLBENZENE	9.71	1	10		97	80-113		9.93	2	20	
1,2,3-TRICHLOROPROPANE	11.5	1	10		115	78-117		11	4	20	
1,1,2,2-TETRACHLOROETHANE	11	1	10		110	75-121		10.8	2	20	
BROMOBENZENE	10.1	1	10		101	81-114		10.3	2	20	
N-PROPYLBENZENE	9.99	1	10		100	79-116		10.4	4	20	
2-CHLOROTOLUENE	10.5	1	10		105	79-116		10.6	2	20	
1,3,5-TRIMETHYLBENZENE	10.1	1	10		101	78-116		10.7	6	20	
4-CHLOROTOLUENE	10.5	1	10		105	78-115		10.8	3	20	
TERT-BUTYLBENZENE	10.8	1	10		108	76-120		10.9	2	20	
1,2,4-TRIMETHYLBENZENE	10.2	1	10		102	80-117		10.6	4	20	
SEC-BUTYLBENZENE	9.9	1	10		99	78-115		10.4	5	20	
1,3-DICHLOROBENZENE	10.3	1	10		103	79-115		10.4	2	20	
P-ISOPROPYLTOLUENE	10.3	1	10		103	77-116		10.6	3	20	
1,4-DICHLOROBENZENE	10.3	1	10		103	82-114		10.5	2	20	
N-BUTYLBENZENE	10	1	10		100	79-117		10.6	5	20	
1,2-DICHLOROBENZENE	10.6	1	10		106	82-114		10.4	2	20	
1,2-DIBROMO-3-CHLOROPROPANE	11.1	2	10		111	73-125		10.8	3	20	
1,2,4-TRICHLOROBENZENE	9.35	1	10		93	75-120		9.22	1	20	
HEXACHLOROBUTADIENE	10.2	1	10		102	71-124		10.3	1	20	
NAPHTHALENE	9.73	1	10		97	71-131		9.21	5	20	
1,2,3-TRICHLOROBENZENE	9.56	1	10		96	70-131		9.11	5	20	
Surr: DIBROMOFLUOROMETHANE	25.2		25		101	84-118			0		
Surr: TOLUENE-D8	24.4		25		97	85-115			1		
Surr: 4-BROMOFLUOROBENZENE	25.9		25		104	85-115			0		

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

MB Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 13:12**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	1									
CHLOROMETHANE	ND	1									
VINYL CHLORIDE	ND	1									
BROMOMETHANE	ND	1									
CHLOROETHANE	ND	1									
TRICHLOROFLUOROMETHANE	ND	1									
1,1-DICHLOROETHENE	ND	1									
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND	1									
ACETONE	ND	10									
IODOMETHANE	ND	1									
CARBON DISULFIDE	ND	1									
METHYLENE CHLORIDE	ND	1									
TRANS-1,2-DICHLOROETHENE	ND	1									
METHYL TERTIARY BUTYL ETHER	ND	1									
1,1-DICHLOROETHANE	ND	1									
VINYL ACETATE	ND	2									
CIS-1,2-DICHLOROETHENE	ND	1									
2-BUTANONE	ND	10									
BROMOCHLOROMETHANE	ND	1									
CHLOROFORM	ND	1									
1,1,1-TRICHLOROETHANE	ND	1									
2,2-DICHLOROPROPANE	ND	1									
CARBON TETRACHLORIDE	ND	1									
1,1-DICHLOROPROPENE	ND	1									
1,2-DICHLOROETHANE	ND	1									
BENZENE	ND	1									
TRICHLOROETHENE	ND	1									
1,2-DICHLOROPROPANE	ND	1									
DIBROMOMETHANE	ND	1									
BROMODICHLOROMETHANE	ND	1									
CIS-1,3-DICHLOROPROPENE	ND	1									
4-METHYL-2-PENTANONE	ND	10									
TOLUENE	ND	1									
TRANS-1,3-DICHLOROPROPENE	ND	1									
1,1,2-TRICHLOROETHANE	ND	1									
2-HEXANONE	ND	10									
TETRACHLOROETHENE	ND	1									
1,3-DICHLOROPROPANE	ND	1									
DIBROMOCHLOROMETHANE	ND	1									
1,2-DIBROMOETHANE	ND	1									

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-1** Instrument ID **HPV1** Method: **SW8260_25**

MB Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 13:12**

Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	ND	1									
CHLOROBENZENE	ND	1									
1,1,1,2-TETRACHLOROETHANE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
STYRENE	ND	1									
BROMOFORM	ND	1									
ISOPROPYLBENZENE	ND	1									
1,2,3-TRICHLOROPROPANE	ND	1									
1,1,2,2-TETRACHLOROETHANE	ND	1									
BROMOBENZENE	ND	1									
N-PROPYLBENZENE	ND	1									
2-CHLOROTOLUENE	ND	1									
1,3,5-TRIMETHYLBENZENE	ND	1									
4-CHLOROTOLUENE	ND	1									
TERT-BUTYLBENZENE	ND	1									
1,2,4-TRIMETHYLBENZENE	ND	1									
SEC-BUTYLBENZENE	ND	1									
1,3-DICHLOROBENZENE	ND	1									
P-ISOPROPYLTOLUENE	ND	1									
1,4-DICHLOROBENZENE	ND	1									
N-BUTYLBENZENE	ND	1									
1,2-DICHLOROBENZENE	ND	1									
1,2-DIBROMO-3-CHLOROPROPANE	ND	2									
1,2,4-TRICHLOROBENZENE	ND	1									
HEXACHLOROBUTADIENE	ND	1									
NAPHTHALENE	ND	1									
1,2,3-TRICHLOROBENZENE	ND	1									
Surr: DIBROMOFLUOROMETHANE	24.7		25		99	84-118					
Surr: TOLUENE-D8	24.6		25		98	85-115					
Surr: 4-BROMOFLUOROBENZENE	27		25		108	85-115					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-3-2** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL160219-6** Units: **UG/L** Analysis Date: **2/19/2016 12:08**
Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	926	100	1000		93	80-120				20	

LCSD Sample ID: **VL160219-6** Units: **UG/L** Analysis Date: **2/19/2016 12:29**
Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	951	100	1000		95	80-120		926	3	20	

MB Sample ID: **VL160219-3** Units: **UG/L** Analysis Date: **2/19/2016 13:12**
Client ID: Run ID: **VL160219-3A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	100									

The following samples were analyzed in this batch: 1602229-21

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 10:21**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	39	5	40		97	62-129				30	
CHLOROMETHANE	35.7	5	40		89	51-129				30	
VINYL CHLORIDE	38.8	5	40		97	58-126				30	
BROMOMETHANE	41.8	5	40		105	31-159				30	
CHLOROETHANE	38.6	5	40		96	39-157				30	
TRICHLOROFLUOROMETHANE	41.1	5	40		103	25-186				30	
1,1-DICHLOROETHENE	39.9	5	40		100	79-134				30	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	41.3	5	40		103	50-150				30	
ACETONE	156	20	160		97	71-135				30	
IODOMETHANE	48.2	5	40		120	50-150				30	
CARBON DISULFIDE	40.5	5	40		101	47-159				30	
METHYLENE CHLORIDE	39.3	5	40		98	54-141				30	
TRANS-1,2-DICHLOROETHENE	40.5	5	40		101	66-134				30	
METHYL TERTIARY BUTYL ETHER	80.8	5	80		101	77-123				30	
1,1-DICHLOROETHANE	40	5	40		100	73-125				30	
VINYL ACETATE	40.6	20	40		102	50-150				30	
CIS-1,2-DICHLOROETHENE	41.6	5	40		104	67-125				30	
2-BUTANONE	164	20	160		102	29-159				30	
BROMOCHLOROMETHANE	43.1	5	40		108	71-127				30	
CHLOROFORM	40.2	5	40		101	72-124				30	
1,1,1-TRICHLOROETHANE	41	5	40		103	68-133				30	
2,2-DICHLOROPROPANE	41.2	5	40		103	67-134				30	
CARBON TETRACHLORIDE	41.8	5	40		104	67-133				30	
1,1-DICHLOROPROPENE	40.2	5	40		100	70-135				30	
1,2-DICHLOROETHANE	38.2	5	40		96	72-137				30	
BENZENE	40.2	5	40		100	73-126				30	
TRICHLOROETHENE	41.3	5	40		103	79-131				30	
1,2-DICHLOROPROPANE	40	5	40		100	71-119				30	
DIBROMOMETHANE	40.5	5	40		101	73-128				30	
BROMODICHLOROMETHANE	40.7	5	40		102	72-128				30	
CIS-1,3-DICHLOROPROPENE	41.5	5	40		104	72-126				30	
4-METHYL-2-PENTANONE	163	20	160		102	47-147				30	
TOLUENE	40.6	5	40		102	71-127				30	
TRANS-1,3-DICHLOROPROPENE	41.8	5	40		105	65-127				30	
1,1,2-TRICHLOROETHANE	40.9	5	40		102	62-127				30	
2-HEXANONE	166	20	160		103	47-146				30	
TETRACHLOROETHENE	42	5	40		105	67-139				30	
1,3-DICHLOROPROPANE	40	5	40		100	76-123				30	
DIBROMOCHLOROMETHANE	42	5	40		105	66-130				30	
1,2-DIBROMOETHANE	42.4	5	40		106	70-124				30	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 10:21**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	41.4	5	40		103	75-125				30	
CHLOROBENZENE	41.4	5	40		104	75-123				30	
1,1,1,2-TETRACHLOROETHANE	41.6	5	40		104	74-125				30	
ETHYLBENZENE	41.5	5	40		104	74-127				30	
M+P-XYLENE	82.2	5	80		103	79-126				30	
O-XYLENE	41.4	5	40		104	77-125				30	
STYRENE	42.4	5	40		106	74-128				30	
BROMOFORM	43.6	5	40		109	56-137				30	
ISOPROPYLBENZENE	41.2	5	40		103	77-129				30	
1,2,3-TRICHLOROPROPANE	41.7	5	40		104	63-130				30	
1,1,2,2-TETRACHLOROETHANE	41.4	5	40		104	54-131				30	
BROMOBENZENE	43.2	5	40		108	66-121				30	
N-PROPYLBENZENE	41.3	5	40		103	63-135				30	
2-CHLOROTOLUENE	42.4	5	40		106	69-128				30	
1,3,5-TRIMETHYLBENZENE	42.2	5	40		105	65-133				30	
4-CHLOROTOLUENE	42.1	5	40		105	73-126				30	
TERT-BUTYLBENZENE	41.9	5	40		105	65-132				30	
1,2,4-TRIMETHYLBENZENE	42.5	5	40		106	65-135				30	
SEC-BUTYLBENZENE	42.4	5	40		106	63-132				30	
1,3-DICHLOROBENZENE	41.8	5	40		104	72-124				30	
P-ISOPROPYLTOLUENE	42.2	5	40		105	40-145				30	
1,4-DICHLOROBENZENE	42.4	5	40		106	72-125				30	
N-BUTYLBENZENE	42.3	5	40		106	35-146				30	
1,2-DICHLOROBENZENE	42.3	5	40		106	74-119				30	
1,2-DIBROMO-3-CHLOROPROPANE	40.1	10	40		100	40-135				30	
1,2,4-TRICHLOROBENZENE	43.2	5	40		108	65-131				30	
HEXACHLOROBUTADIENE	42.9	5	40		107	53-142				30	
NAPHTHALENE	44.1	5	40		110	64-141				30	
1,2,3-TRICHLOROBENZENE	44	5	40		110	62-133				30	
Surr: DIBROMOFLUOROMETHANE	48.8		50		98	61-134					
Surr: TOLUENE-D8	49.5		50		99	57-135					
Surr: 4-BROMOFLUOROBENZENE	51.1		50		102	52-151					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

LCSD Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 10:45**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	38.8	5	40		97	62-129		39	0	30	
CHLOROMETHANE	35.6	5	40		89	51-129		35.7	0	30	
VINYL CHLORIDE	39.2	5	40		98	58-126		38.8	1	30	
BROMOMETHANE	42.4	5	40		106	31-159		41.8	1	30	
CHLOROETHANE	39.5	5	40		99	39-157		38.6	2	30	
TRICHLOROFLUOROMETHANE	40.6	5	40		102	25-186		41.1	1	30	
1,1-DICHLOROETHENE	41.3	5	40		103	79-134		39.9	3	30	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	41.5	5	40		104	50-150		41.3	1	30	
ACETONE	157	20	160		98	71-135		156	1	30	
IODOMETHANE	55.3	5	40		138	50-150		48.2	14	30	
CARBON DISULFIDE	40.7	5	40		102	47-159		40.5	1	30	
METHYLENE CHLORIDE	39	5	40		97	54-141		39.3	1	30	
TRANS-1,2-DICHLOROETHENE	40.5	5	40		101	66-134		40.5	0	30	
METHYL TERTIARY BUTYL ETHER	81.3	5	80		102	77-123		80.8	1	30	
1,1-DICHLOROETHANE	40.1	5	40		100	73-125		40	0	30	
VINYL ACETATE	42.8	20	40		107	50-150		40.6	5	30	
CIS-1,2-DICHLOROETHENE	41.7	5	40		104	67-125		41.6	0	30	
2-BUTANONE	158	20	160		99	29-159		164	3	30	
BROMOCHLOROMETHANE	44.2	5	40		110	71-127		43.1	2	30	
CHLOROFORM	41	5	40		103	72-124		40.2	2	30	
1,1,1-TRICHLOROETHANE	40.6	5	40		102	68-133		41	1	30	
2,2-DICHLOROPROPANE	40.7	5	40		102	67-134		41.2	1	30	
CARBON TETRACHLORIDE	42.2	5	40		106	67-133		41.8	1	30	
1,1-DICHLOROPROPENE	40.9	5	40		102	70-135		40.2	2	30	
1,2-DICHLOROETHANE	39.6	5	40		99	72-137		38.2	3	30	
BENZENE	40.6	5	40		101	73-126		40.2	1	30	
TRICHLOROETHENE	41.7	5	40		104	79-131		41.3	1	30	
1,2-DICHLOROPROPANE	41.1	5	40		103	71-119		40	3	30	
DIBROMOMETHANE	41.9	5	40		105	73-128		40.5	3	30	
BROMODICHLOROMETHANE	41.2	5	40		103	72-128		40.7	1	30	
CIS-1,3-DICHLOROPROPENE	41.8	5	40		104	72-126		41.5	1	30	
4-METHYL-2-PENTANONE	173	20	160		108	47-147		163	6	30	
TOLUENE	40.7	5	40		102	71-127		40.6	0	30	
TRANS-1,3-DICHLOROPROPENE	42.4	5	40		106	65-127		41.8	1	30	
1,1,2-TRICHLOROETHANE	41.1	5	40		103	62-127		40.9	0	30	
2-HEXANONE	169	20	160		105	47-146		166	2	30	
TETRACHLOROETHENE	41.4	5	40		104	67-139		42	1	30	
1,3-DICHLOROPROPANE	40.8	5	40		102	76-123		40	2	30	
DIBROMOCHLOROMETHANE	42.9	5	40		107	66-130		42	2	30	
1,2-DIBROMOETHANE	41.9	5	40		105	70-124		42.4	1	30	

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

LCSD Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 10:45**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	41.3	5	40		103	75-125		41.4	0	30	
CHLOROBENZENE	42	5	40		105	75-123		41.4	1	30	
1,1,1,2-TETRACHLOROETHANE	42.7	5	40		107	74-125		41.6	3	30	
ETHYLBENZENE	41	5	40		103	74-127		41.5	1	30	
M+P-XYLENE	83	5	80		104	79-126		82.2	1	30	
O-XYLENE	42.4	5	40		106	77-125		41.4	2	30	
STYRENE	42.6	5	40		107	74-128		42.4	1	30	
BROMOFORM	43.6	5	40		109	56-137		43.6	0	30	
ISOPROPYLBENZENE	41.8	5	40		104	77-129		41.2	1	30	
1,2,3-TRICHLOROPROPANE	42.5	5	40		106	63-130		41.7	2	30	
1,1,2,2-TETRACHLOROETHANE	40.7	5	40		102	54-131		41.4	2	30	
BROMOBENZENE	44.3	5	40		111	66-121		43.2	2	30	
N-PROPYLBENZENE	42.3	5	40		106	63-135		41.3	2	30	
2-CHLOROTOLUENE	43.5	5	40		109	69-128		42.4	3	30	
1,3,5-TRIMETHYLBENZENE	43.2	5	40		108	65-133		42.2	2	30	
4-CHLOROTOLUENE	43.9	5	40		110	73-126		42.1	4	30	
TERT-BUTYLBENZENE	42.9	5	40		107	65-132		41.9	2	30	
1,2,4-TRIMETHYLBENZENE	43.4	5	40		109	65-135		42.5	2	30	
SEC-BUTYLBENZENE	43	5	40		108	63-132		42.4	2	30	
1,3-DICHLOROBENZENE	43.2	5	40		108	72-124		41.8	3	30	
P-ISOPROPYLTOLUENE	43.2	5	40		108	40-145		42.2	2	30	
1,4-DICHLOROBENZENE	43.1	5	40		108	72-125		42.4	2	30	
N-BUTYLBENZENE	43.3	5	40		108	35-146		42.3	2	30	
1,2-DICHLOROBENZENE	42.8	5	40		107	74-119		42.3	1	30	
1,2-DIBROMO-3-CHLOROPROPANE	41	10	40		102	40-135		40.1	2	30	
1,2,4-TRICHLOROBENZENE	45.6	5	40		114	65-131		43.2	5	30	
HEXACHLOROBUTADIENE	43.3	5	40		108	53-142		42.9	1	30	
NAPHTHALENE	45.5	5	40		114	64-141		44.1	3	30	
1,2,3-TRICHLOROBENZENE	45.8	5	40		115	62-133		44	4	30	
Surr: DIBROMOFLUOROMETHANE	50.4		50		101	61-134			3		
Surr: TOLUENE-D8	50		50		100	57-135			1		
Surr: 4-BROMOFLUOROBENZENE	51.6		50		103	52-151			1		

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

MB Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 12:41**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	5									
CHLOROMETHANE	ND	5									
VINYL CHLORIDE	ND	5									
BROMOMETHANE	ND	5									
CHLOROETHANE	ND	5									
TRICHLOROFLUOROMETHANE	ND	5									
1,1-DICHLOROETHENE	ND	5									
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND	5									
ACETONE	ND	20									
IODOMETHANE	ND	5									
CARBON DISULFIDE	ND	5									
METHYLENE CHLORIDE	ND	5									
TRANS-1,2-DICHLOROETHENE	ND	5									
METHYL TERTIARY BUTYL ETHER	ND	5									
1,1-DICHLOROETHANE	ND	5									
VINYL ACETATE	ND	20									
CIS-1,2-DICHLOROETHENE	ND	5									
2-BUTANONE	ND	20									
BROMOCHLOROMETHANE	ND	5									
CHLOROFORM	ND	5									
1,1,1-TRICHLOROETHANE	ND	5									
2,2-DICHLOROPROPANE	ND	5									
CARBON TETRACHLORIDE	ND	5									
1,1-DICHLOROPROPENE	ND	5									
1,2-DICHLOROETHANE	ND	5									
BENZENE	ND	5									
TRICHLOROETHENE	ND	5									
1,2-DICHLOROPROPANE	ND	5									
DIBROMOMETHANE	ND	5									
BROMODICHLOROMETHANE	ND	5									
CIS-1,3-DICHLOROPROPENE	ND	5									
4-METHYL-2-PENTANONE	ND	20									
TOLUENE	ND	5									
TRANS-1,3-DICHLOROPROPENE	ND	5									
1,1,2-TRICHLOROETHANE	ND	5									
2-HEXANONE	ND	20									
TETRACHLOROETHENE	ND	5									
1,3-DICHLOROPROPANE	ND	5									
DIBROMOCHLOROMETHANE	ND	5									
1,2-DIBROMOETHANE	ND	5									

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-1** Instrument ID **HPV1** Method: **SW8260**

MB Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 12:41**

Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	ND	5									
CHLOROBENZENE	ND	5									
1,1,1,2-TETRACHLOROETHANE	ND	5									
ETHYLBENZENE	ND	5									
M+P-XYLENE	ND	5									
O-XYLENE	ND	5									
STYRENE	ND	5									
BROMOFORM	ND	5									
ISOPROPYLBENZENE	ND	5									
1,2,3-TRICHLOROPROPANE	ND	5									
1,1,2,2-TETRACHLOROETHANE	ND	5									
BROMOBENZENE	ND	5									
N-PROPYLBENZENE	ND	5									
2-CHLOROTOLUENE	ND	5									
1,3,5-TRIMETHYLBENZENE	ND	5									
4-CHLOROTOLUENE	ND	5									
TERT-BUTYLBENZENE	ND	5									
1,2,4-TRIMETHYLBENZENE	ND	5									
SEC-BUTYLBENZENE	ND	5									
1,3-DICHLOROBENZENE	ND	5									
P-ISOPROPYLTOLUENE	ND	5									
1,4-DICHLOROBENZENE	ND	5									
N-BUTYLBENZENE	ND	5									
1,2-DICHLOROBENZENE	ND	5									
1,2-DIBROMO-3-CHLOROPROPANE	ND	10									
1,2,4-TRICHLOROBENZENE	ND	5									
HEXACHLOROBUTADIENE	ND	5									
NAPHTHALENE	ND	5									
1,2,3-TRICHLOROBENZENE	ND	5									
Surr: DIBROMOFLUOROMETHANE	49.5		50		99	61-134					
Surr: TOLUENE-D8	49.2		50		98	57-135					
Surr: 4-BROMOFLUOROBENZENE	49.2		50		98	52-151					

Client: Braun Intertec
Work Order: 1602229
Project: B1601155 DOWL

QC BATCH REPORT

Batch ID: **VL160219-4-2** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL160219-8** Units: **UG/KG** Analysis Date: **2/19/2016 11:31**
Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1930	500	2000		96	80-120				20	

LCSD Sample ID: **VL160219-8** Units: **UG/KG** Analysis Date: **2/19/2016 11:54**
Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1890	500	2000		95	80-120		1930	2	20	

MB Sample ID: **VL160219-4** Units: **UG/KG** Analysis Date: **2/19/2016 12:41**
Client ID: Run ID: **VL160219-4A** Prep Date: **2/19/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	500									

The following samples were analyzed in this batch: 1602229-6 1602229-18

Appendix C

Boring Logs

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-01**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0						
1.0		Topsoil				
	CL	SANDY LEAN CLAY, fine-grained, poorly graded, brown, some coarse-grained, trace iron-staining, medium plasticity, firm, moist.			0.1	
					0.1	
					0.2	
8.0					0.1	
		END OF BORING.				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-02**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0						
		Topsoil				
1.0						
	SM	SILTY SAND, fine-grained, poorly graded, tan, some coarse-grained Gravel, dry.				
					0.2	
		-moist, trace Cobbles.			0.2	
					0.3	
					0.3	
		-Cobbles at 10 feet.				
					0.7	
12.0		-trace black Silt lenses.				
		END OF BORING.				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-03**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0		Topsoil				
1.0	CL	SANDY LEAN CLAY, fine-grained, poorly graded, brown, firm, medium plasticity, common coarse Gravel, moist.			0.3	
3.0	CL-ML	SILTY CLAY, with some fine poorly graded Sand, dark brown, soft, low plasticity, moist.		▽	0.3 0.4	Water observed at 4 feet.
		-tan at 5 1/2 feet.			0.3	
8.0	ML	SANDY SILT, fine-grained, poorly graded Sand, brown, wet.			0.3	
9.0	CL	SANDY LEAN CLAY, fine-grained, poorly graded, brown, firm, medium plasticity, trace coarse Gravel, some iron-staining and mottling, moist.			0.1	
10.0		END OF BORING. Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-04**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0						
0.5		Topsoil				
	CL	SANDY LEAN CLAY, fine-grained, poorly graded, tan, loose, firm, low plasticity, Potential Fill (not natively bedded), dry.				
		-moist at 2 1/2 feet.			0.2	
4.0						
	CL	SANDY LEAN CLAY, fine-grained, poorly graded, brown, firm, medium plasticity, some coarse Gravel and iron-staining, moist.				
					0.2	
8.0						
		END OF BORING.				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-05**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0	SM	SILTY SAND, fine-grained, poorly graded, tan, some coarse Gravel, loose, Potential Fill, dry.			0.1	
					0.2	
4.0	CL	SANDY LEAN CLAY, brown, fine-grained Sand, common fine-grained lenses, trace iron-staining and mottling, moist.				
		-trace coarse Gravel from 6 to 8 feet.			0.3	
		-trace Lignite from 8 to 10 feet.			0.3	
10.0		-large rocks at 10 feet.				
		END OF BORING - Refusal at 10 feet..				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-06**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0		Topsoil				
1.0	SM	SILTY SAND, brown, common coarse grained Gravel, poorly graded, moist, Potenial Fill (not natively bedded).			0.2	
4.0	CL	SANDY LEAN CLAY, brown, fine-grained, common coarse Gravel, Potential Fill (not natively bedded), moist.				
5.0	SM	SILTY SAND, fine-grained, dark brown, wet. -gray at 6 feet.		▽	0.3	Water observed at 6 feet.
8.0	SW	SAND, medium grained, poorly graded, gray, wet.			0.2	
10.0		END OF BORING. Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF BORING N:\GINT\PROJECTS\AX PROJECTS\2016\01155.GPJ BRAUN_V8_CURRENT.GDT 3/30/16 14:01

BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-07**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

(See Descriptive Terminology sheet for explanation of abbreviations)

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0		Topsoil				
1.0	CL	SANDY LEAN CLAY, fine-grained, dry, loose, low plasticity, some coarse Gravel, Potenial Fill (not natively bedded).			0.2	
3.0	CL	SANDY LEAN CLAY, fine-grained, brown, medium plasticity, firm, moist.			0.3	
					0.3	
7.0						
7.5	CL	SANDY LEAN CLAY, fine-grained, gray, soft, high plasticity, moist.			8.5	Petroleum Like Odor
8.0	SM	SILTY SAND, fine-grained, poorly graded, gray, moist.				
		END OF BORING.				
		Boring then backfilled.				

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BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-08**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0						
1.0		Topsoil				
	SM	SILTY SAND, fine-grained, poorly graded, dry, trace coarse Gravel, dry. -Cobbles at 1 1/2 feet.			0.2	
		-moist at 6 feet.			0.2	
8.0		END OF BORING. Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

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BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-09**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0		Topsoil				
1.8	CONC	-1/2 to 1 inch diameter Concrete Debris at 1 1/2 feet.				
	CL-ML	SILTY CLAY, brown, loose, trace Cobbles, moist.			0.1	
6.5		-3 inch coarse Gravel lense at 6 feet.				
	CL	SANDY LEAN CLAY, fine-grained, poorly sorted, common coarse Gravel, trace iron-staining, moist.			0.3	
8.0		END OF BORING.				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

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BRAUN INTERTEC

LOG OF BORING

Braun Project B1601155
Highway 1804 Soils Investigation
Phase II ESA
Highway 1804
Williston, North Dakota

BORING: **SB-10**

LOCATION: See Sketch.

DRILLER: Range | METHOD: Push Probe | DATE: **2/16/16** | SCALE: **1" = 4'**

Depth feet	Symbol	Description of Materials (Soil-ASTM D2488 or D2487, Rock-USACE EM1110-1-2908)	BPF	WL	PID ppm	Tests or Notes
0.0						
0.5		Topsoil				
	CL	SANDY LEAN CLAY, fine-grained, poorly graded, brown, common coarse Gravel, trace Cobbles, firm, low plasticity, moist.			0.1	
					0.5	
5.0						
	ML	SANDY SILT, fine-grained, poorly graded, dark brown, moist.			0.3	
7.0						
	CL-ML	SILTY CLAY, tan, firm, medium plasticity, moist.			0.3	
8.0		-Cobbles at 8 feet.				
	CL	LEAN CLAY, with poorly graded, fine-grained Sand, tan, moist.			0.4	
10.0						
		END OF BORING.				
		Boring then backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

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